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ABSTRACT

This sixth volume in the fourth series of general bibliographies produced by the Science and Mathematics Education Information Analysis Center updates, but does not replace, previous bibliographies in this series. Documents which contain resource materials for teachers of elementary, secondary, and college science, and which have been indexed or abstracted at the Center, are listed in the following categories: Elementary Education, with subdivisions of Science and Health Education; Secondary Education, with Biological Sciences and Health Education; Physical and Earth Sciences, Mathematics, and General subdivisions; College Science, categorized as Biological Sciences, Physical and Earth Sciences, and Mathematics; and General (containing documents pertinent to more than one educational level) with the same subdivisions as the secondary section. There is an author index. Each citation includes author, title, publisher or journal citation, SE identification number, and, for documents announced in Research in Education, the ED identification number and availability information. Descriptors and identifiers used in indexing are included for each document listed. Documents cited include teachers guides, laboratory exercises, "teacher tips" and accounts of educational practice. (AL)

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TEACHER RESOURCE MATERIALS

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May, 1970

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Table of Contents

		Page
A.	Elementary Education	
	1. Science and Health Education	1
	2. Mathematics	8
B.	Secondary Education	
	1. Biological Sciences and Health Education	12
	2. Physical Sciences and Earth Sciences	16
	3. Mathematics	20
	4. General (Science and/or Mathematics)	25
C.	College Education	
	1. Biological Sciences	29
	2. Physical Sciences and Earth Sciences	31
	3. Mathematics	62
D.	General (Pertinent To Two or More Educational Levels)	
	1. Biological Sciences	64
	2. Physical Sciences and Earth Sciences	73
	3. Mathematics	90
	4. General (Science and/or Mathematics)	94
E.	Author Index	103
F.	Articles With No Specified Author	112

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ASSOCIATION FOR SCIENCE EDUCATION
SCIENCE FOR PRIMARY SCHOOLS 2, LIST OF BOOKS
THE ASSOCIATION FOR SCIENCE EDUCATION, CAMBRIDGE, ENGLAND
JOHN MURRAY PUBLISHERS
66 96
*BIBLIOGRAPHIES, *ELEMENTARY SCHOOL SCIENCE, *INSTRUCTIONAL MATERIALS, *TEACHER RESOURCE MATERIALS, BIOLOGICAL SCIENCES, CHEMISTRY, EARTH SCIENCE, INTERNATIONAL EDUCATION, MATHEMATICS, PHYSICS, SCIENCE EDUCATION, SCIENCE HISTORY, GREAT BRITAIN, ASSOCIATION FOR SCIENCE EDUCATION

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ASSOCIATION FOR SCIENCE EDUCATION
SCIENCE FOR PRIMARY SCHOOLS 3, LIST OF TEACHING AIDS
THE ASSOCIATION FOR SCIENCE EDUCATION, CAMBRIDGE, ENGLAND
JOHN MURRAY PUBLISHERS
66 24
*ELEMENTARY SCHOOL SCIENCE, *INSTRUCTIONAL MATERIALS, *INTERNATIONAL EDUCATION, *SCIENCE MATERIALS, AUDIOVISUAL AIDS, RESOURCE MATERIALS, SCIENCE EDUCATION, GREAT BRITAIN, ASSOCIATION FOR SCIENCE EDUCATION

3. SE 006 495
BENNETT, LLOYD M.; AND OTHERS
WORKSHOP IDEAS - GRAVITY
SCIENCE AND CHILDREN
10 00 68 2
*ELEMENTARY SCHOOL SCIENCE, ELECTRICITY, GRAVITY, REFERENCE MATERIALS, *SCIENCE EQUIPMENT, *SCIENCE ACTIVITIES

4. SE 006 767
BUSCH, PHYLLIS S.
SEVEN STEPS FOR DEVELOPING AN OUTDOOR SCHOOL AREA FOR TEACHING SCIENCE-CONSERVATION
ULSTER COUNTY BOARD OF COOPERATIVE EDUCATION SERVICES, NEW PALTZ, NEW YORK
EDRS, NATIONAL CASH REGISTER COMPANY, 4936 FAIRMONT AVENUE, BETHESDA, MARYLAND
ED 033 843 MF $0.25 HC $1.60
69 30
CONSERVATION EDUCATION, *ELEMENTARY SCHOOL SCIENCE, EDUCATIONAL PROGRAMS, INSTRUCTION, *OUTDOOR EDUCATION, PROGRAM DESCRIPTIONS, PROGRAM PLANNING, *PROGRAM GUIDES, SCIENCE ACTIVITIES, TEACHER GUIDES, ELEMENTARY AND SECONDARY EDUCATION ACT TITLE III

5. SE 006 766
BUSCH, PHYLLIS S.
SOME GUIDES TO DISCOVERY ABOUT ELM TREES, OWLS, COCKROACHES, EARTHWORMS, CEMENT AND CONCRETE GRADES K-6
ULSTER COUNTY BOARD OF COOPERATIVE EDUCATION SERVICES, NEW PALTZ, NEW YORK
EDRS, NATIONAL CASH REGISTER COMPANY, 4936 FAIRMONT AVE., BETHESDA, MARYLAND
ED 035 540 MF $0.25 HC $1.00
69 18
BIOLOGY, *CONSERVATION EDUCATION, DISCOVERY LEARNING, *ELEMENTARY SCHOOL SCIENCE, GENERAL SCIENCE, *INSTRUCTIONAL MATERIALS, RESOURCE GUIDES, *SCIENCE ACTIVITIES, *TEACHING GUIDES, SCIENCE PROJECT RELATED TO UPGRADING CONSERVATION EDUCATION, ELEMENTARY AND SECONDARY EDUCATION ACT TITLE III

6. SE 006 769
BUSCH, PHYLLIS S.
URBAN DISCOVERY MANUAL, 75 STIMULATING IDEAS FOR INVESTIGATING SOME COMMON URBAN RESOURCES K-6
ULSTER COUNTY BOARD OF COOPERATIVE EUCATION SERVICES, NEW PALTZ, NEW YORK
EDRS, NATIONAL CASH REGISTER COMPANY, 4936 FAIRMONT AVENUE, BETHESDA, MARYLAND
ED 033 844 MF $0.25 HC $1.70
69 32
BIOLOGY, *CONSERVATION EDUCATION, *ELEMENTARY SCHOOL SCIENCE, EARTH SCIENCE, *INSTRUCTIONAL MATERIALS, POLLUTION, RESOURCE MATERIALS, SCIENCE ACTIVITIES, *TEACHER GUIDES, *URBAN EDUCATION, ELEMENTARY AND SECONDARY EDUCATION ACT TITLE III

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CONARD, DAVID; LAWSON, CHESTER A.
POPULATIONS, TEACHER'S GUIDE
SCIENCE CURRICULUM IMPROVEMENT STUDY, BERKELEY, CALIFORNIA
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ED 032 225 NOT AVAILABLE FROM EDRS
69 88
BIOLOGY, CONCEPTUAL SCHEMES, *ECOLOGY, *ELEMENTARY SCHOOL SCIENCE, INSTRUCTIONAL MATERIALS, SCIENCE COURSE IMPROVEMENT PROJECT, SCIENCE ACTIVITIES, SCIENTIFIC CONCEPTS, *TEACHING GUIDES, NATIONAL SCIENCE FOUNDATION, SCIENCE CURRICULUM IMPROVEMENT STUDY, 1969

8. SE 500 769
CRUMMOND, A. H., JR.
DANGER IN THE BACKYARD
SCIENCE AND CHILDREN
10 00 69 4
*ELEMENTARY SCHOOL SCIENCE, *HEALTH, *SAFETY, BIOLOGY, BOTANY, HERBICIDES, POLLUTION, PLANT POISONS, 1969

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CUTLER, JANICE
HEAT AND TEMPERATURE
SCIENCE AND CHILDREN
11 00 68 7
*ELEMENTARY SCHOOL SCIENCE, *HEAT, *PHYSICAL SCIENCES, MEASUREMENT, SCIENTIFIC CONCEPTS, TEMPERATURE, RESOURCE MATERIALS, SUN OIL COMPANY, NATIONAL SCIENCE TEACHERS ASSOCIATION, NATIONAL SCIENCE FOUNDATION

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DURANT, VICTORIA; MONTGOMERY, MARSHALL
PERIODIC MOTION TEACHER'S GUIDE
SCIENCE CURRICULUM IMPROVEMENT STUDY, BERKELEY, CALIFORNIA
02 00 69 68
*ELEMENTARY SCHOOL SCIENCE, *MOTION, *PHYSICS, *TEACHING GUIDES, GRADE 6, TEACHING PROCEDURES, TEACHING METHODS, SCIENCE CURRICULUM IMPROVEMENT STUDY

11. SE 007 473
KHOURI, JOHN W.
SCIENTIFIC METHOD, K-6, ELEMENTARY SCIENCE UNIT NUMBER 3
BETHLEHEM AREA SCHOOL DISTRICT, PENNSYLVANIA
EDRS, NATIONAL CASH REGISTER COMPANY, 4936 FAIRMONT AVENUE, BETHESDA, MARYLAND
ED 032 218 MF $1.00 HC $11.75
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CURRICULUM GUIDES, *ELEMENTARY SCHOOL SCIENCE, *INSTRUCTIONAL MATERIALS, LABORATORY PROCEDURES, PHYSICAL SCIENCES, RESOURCE MATERIALS, *SCIENCE ACTIVITIES, SCIENTIFIC ENTERPRISE, TABLES (DATA), *TEACHING GUIDES, 1968, BETHLEHEM AREA SCHOOL DISTRICT

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SCIENCE AND CHILDREN
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*ELEMENTARY SCHOOL SCIENCE, *FIELD INSTRUCTION, *INSTRUCTION, INSTRUCTIONAL MATERIALS, OUTDOOR EDUCATION, SCIENCE EXPERIMENTS, SCIENCE ACTIVITIES

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KROCKOVER, GERALD H.; GLASS, LYNN W.
ADDING PROCESS TO YOUR ELEMENTARY SCIENCE CONTENT UNIT
SCHOOL SCIENCE AND MATHEMATICS
04 00 69 3
*BIOLOGY, *ELEMENTARY SCHOOL SCIENCE, *INSTRUCTION, *RESOURCE MATERIALS, SKILL DEVELOPMENT, SCIENCE ACTIVITIES

14. SE 007 176
LANSDOWN, BRENDA
NEW WAYS IN ELEMENTARY SCIENCE, PARTICIPATING TEACHER'S GUIDE
EALING CORPORATION, CAMBRIDGE, MASSACHUSETTS
68 58
*CURRICULUM DEVELOPMENT, *DISCOVERY LEARNING, *ELEMENTARY SCHOOL SCIENCE, EDUCATIONAL OBJECTIVES, INSERVICE TEACHER EDUCATION, PHYSICAL SCIENCES, *TEACHER GUIDES, TEACHING TECHNIQUES

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LAWSON, MALCOLM
A FRESH LOOK AT AN OLD EXPERIMENT
SCIENCE AND CHILDREN
03 00 69 2
*ELEMENTARY SCHOOL SCIENCE, *INSTRUCTION, *SCIENCE ACTIVITIES, PHYSICAL SCIENCES, SCIENCE EXPERIMENTS, TEACHING PROCEDURES

16. SE 500 375
LOCKARD, J. DAVID
SHEDDING LIGHT ON THE LENS
SCIENCE AND CHILDREN
05 00 69 5
*ELEMENTARY SCHOOL SCIENCE, *INSTRUCTION, *MICROSCOPES, *SCIENCE ACTIVITIES, *SCIENCE EQUIPMENT, BIOLOGY, EARTH SCIENCE, MICROBIOLOGY, RESOURCE MATERIALS

17. SE 500 772
LOWERY, LAWRENCE F.
THE VIVARIUM
SCIENCE AND CHILDREN
10 00 69 4
*ECOLOGY, *ELEMENTARY SCHOOL SCIENCE, *SCIENCE ACTIVITIES, *SCIENCE EQUIPMENT, BIOLOGY, 1969

18. SE 500 261
METCALFE, JOHN A.
HOLES CAN HAVE TEACHING VALUE
SCIENCE AND CHILDREN
04 00 69 3
*BIOLOGY, *ELEMENTARY SCHOOL SCIENCE, *INSTRUCTION, *INQUIRY TRAINING, *SCIENCE ACTIVITIES, ANIMAL BEHAVIOR, ECOLOGY, OUTDOOR EDUCATION

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PAULSEN, GORDON L.
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POTTER, IRENE C.; LEWIS, JUNE E.
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*ELEMENTARY SCHOOL SCIENCE, *EDUCATIONAL FILMS, *PHYSICS, *SPACE SCIENCE, *TEACHING GUIDES, GRADE 4, INSTRUCTION, PHYSICAL SCIENCE, PROBLEM SOLVING

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ST. JOHN, LEO
AIRPLANES AND FLIGHT
SCIENCE AND CHILDREN
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LIFE CYCLES TEACHER'S GUIDE
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*BIOLOGY, *ELEMENTARY SCHOOL SCIENCE, *INSTRUCTIONAL MATERIALS, *LIFE CYCLES, *SCIENCE ACTIVITIES, RESOURCE MATERIALS, TEACHER GUIDES, SCIENCE CURRICULUM IMPROVEMENT STUDY

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SHATTUCK, J. BRUCE
SORTING ACTIVITIES
SCIENCE AND CHILDREN
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*ELEMENTARY SCHOOL SCIENCE, *INSTRUCTION, *SCIENCE ACTIVITIES, *SKILL DEVELOPMENT, RESOURCE MATERIALS, SCIENCE EDUCATION

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SHORESMAN, PETER B.; AND OTHERS
ELEMENTARY SCIENCE MATERIALS: . AN ANALYSIS
THE EDUCATION PRODUCTS INFORMATION EXCHANGE FORUM
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*ELEMENTARY SCHOOL SCIENCE, *EQUIPMENT EVALUATION, *INSTRUCTIONAL MATERIALS, *SCIENCE KITS, BIOLOGY, PHYSICAL SCIENCES, RESOURCE MATERIALS, SCIENCE EQUIPMENT, SCIENCE MATERIALS, EDUCATIONAL PRODUCTS INFORMATION EXCHANGE

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SOUTHEASTERN PENNSYLVANIA OUTDOOR EDUCATION CENTER
SOUTHEASTERN PENNSYLVANIA OUTDOOR EDUCATION CENTER, GENERAL CURRICULUM MATERIALS
SOUTHEASTERN PENNSYLVANIA OUTDOOR EDUCATION CENTER, MEDIA
68 25
*BIOLOGY, *ELEMENTARY SCHOOL SCIENCE, *FIELD TRIPS, *REFERENCE MATERIALS, *TEACHING GUIDES, CURRICULUM DEVELOPMENT, NATURAL SCIENCES, SCIENCE ACTIVITIES

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SCIENCE AND CHILDREN
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THEISS, FRANCES CASE
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HARVARD UNIVERSITY, CAMBRIDGE, MASSACHUSETTS
HARVARD GRADUATE SCHOOL OF EDUCATION, CAMBRIDGE, MASSACHUSETTS
69 25
*BIBLIOGRAPHIES, *ELEMENTARY SCHOOL SCIENCE, *INSTRUCTIONAL MATERIALS, ANNOTATED BIBLIOGRAPHIES, RECREATIONAL READING, SUPPLEMENTARY READING MATERIALS

33. SE 007 178
NEW WAYS IN ELEMENTARY SCIENCE, WORKSHOP LEADER'S GUIDE
EALING CORPORATION, CAMBRIDGE, MASSACHUSETTS
68 19
*DISCOVERY LEARNING, *ELEMENTARY SCHOOL SCIENCE, EDUCATIONAL OBJECTIVES, FILMS, *INSERVICE TEACHER EDUCATION, *INSTRUCTION, *PHYSICAL SCIENCES, *TEACHER EDUCATION, TEACHING TECHNIQUES, TEACHING GUIDES, WORKSHOPS

34. SE 006 722
OUTDOOR EDUCATION PROGRAM FOR SCHOOLS, SAMPLE MATERIALS
KALAMAZOO NATURE CENTER FOR ENVIRONMENTAL EDUCATION, MICHIGAN
68 22
*BIOLOGY, *EDUCATIONAL PROGRAMS, EVALUATION, EDUCATIONAL OBJECTIVES, *ELEMENTARY SCHOOL SCIENCE, NATURAL SCIENCES, *OUTDOOR EDUCATION, PHYSICAL SCIENCES, *SCIENCE ACTIVITIES, *TEACHING GUIDES, ZOOLOGY, KALAMAZOO, MICHIGAN, NATURE STUDY

35. SE 006 073
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THE EDUCATIONAL PRODUCTS INFORMATION EXCHANGE FORUM
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SCIENCE IN THE ELEMENTARY SCHOOL PROGRAM
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1. SE 500 314
   BAKER, DIANNE M.; OVERHOLSER, JEAN S.
   "IMPOSSIBLE MATHEMATICAL FORCE" FOR GRADES 3 TO 6
   THE ARITHMETIC TEACHER
   05 00 69 2
   *AUDIOVISUAL AIDS, *ELEMENTARY SCHOOL MATHEMATICS, ARITHMETIC, NUMBER CONCEPTS, STUDENT PARTICIPATION, WHOLE NUMBERS

2. SE 500 480
   CRAMER, WARD
   GOLDEN FRUIT SALAD--A LITTLE FISHY!
   THE ARITHMETIC TEACHER
   10 00 69 3
   *ARITHMETIC, *ELEMENTARY SCHOOL MATHEMATICS, *INSTRUCTION, *MEASUREMENT, KINDERGARTEN

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   FLORY, DAVID W.
   WHAT ARE THE CHANGES?
   THE ARITHMETIC TEACHER
   11 00 69 2
   *ELEMENTARY SCHOOL MATHEMATICS, *INSTRUCTION, *PROBABILITY, MATHEMATICAL CONCEPTS, SAMPLING, TEACHING TECHNIQUES

4. SE 500 222
   GOGAN, DAISY
   A GAME WITH SHAPES
   THE ARITHMETIC TEACHER
   04 00 69 2
   *ELEMENTARY SCHOOL MATHEMATICS, *GEOMETRIC CONCEPTS, *LEARNING ACTIVITIES, ARITHMETIC, MATHEMATICS, TEACHING TECHNIQUES

5. SE 500 085
   GURAU, PETER K.
   A DECK OF CARDS, A BUNCH OF KINDS, AND THOU
   THE ARITHMETIC TEACHER
   02 00 69 3
   *ELEMENTARY SCHOOL MATHEMATICS, *FUNDAMENTAL CONCEPTS, *INSTRUCTION, *MATHEMATICAL CONCEPTS, *NUMBER CONCEPTS, ARITHMETIC, GRADE 1, KINDERGARTEN

6. SE 500 469
   HIGGINS, JON L.
   SUGAR-CUBE MATHEMATICS
   THE ARITHMETIC TEACHER
   10 00 69 5
   *ELEMENTARY SCHOOL MATHEMATICS, *INSTRUCTIONAL AIDS, *INSTRUCTION, *TEACHING TECHNIQUES, FRACTIONS, WHOLE NUMBERS

7. SE 500 093
HOLDAN, GREGORY
PRIME - A DRILL IN THE RECOGNITION OF PRIME AND COMPOSITE NUMBERS
THE ARITHMETIC TEACHER
02 00 69 3
*ELEMENTARY SCHOOL MATHEMATICS, *NUMBER CONCEPTS, *TEACHING PROCEDURES, ARITHMETIC, WHOLE NUMBERS

8. SE 500 307
JUNGE, CHARLOTTE W.
DOTS, PLOTS, AND PROFILES
THE ARITHMETIC TEACHER
05 00 69 8
*ARITHMETIC, *ELEMENTARY SCHOOL MATHEMATICS, *GRAPHS, *INSTRUCTION, AUDIOVISUAL AIDS, GEOMETRIC CONCEPTS, GRADE 5, NUMBER CONCEPTS, TEACHING PROCEDURES

9. SE 500 843
KOPP, AUDREY; HAMADA, ROBERT
FUN CAN BE MATHEMATICS
THE ARITHMETIC TEACHER
11 00 69 3
*ARITHMETIC, *CLASSROOM TECHNIQUES, *ELEMENTARY SCHOOL MATHEMATICS, *LEARNING ACTIVITIES, *NUMBER CONCEPTS, MATHEMATICS EDUCATION

10. SE 500 481
LIEDTKE, WERNER
WHAT CAN YOU DO WITH A GEOBOARD?
THE ARITHMETIC TEACHER
10 00 69 3
*ELEMENTARY SCHOOL MATHEMATICS, *GRAPHS, *GEOMETRIC CONCEPTS, *INSTRUCTION, *TEACHING TECHNIQUES, NUMBER CONCEPTS

11. SE 500 844
MATHISON, SALLY
SOLVING STORY PROBLEMS AND LIKING IT
THE ARITHMETIC TEACHER
11 00 69 3
*ARITHMETIC, *ELEMENTARY SCHOOL MATHEMATICS, *INSTRUCTION, *MOTIVATION, *PROBLEM SOLVING, NUMBER CONCEPTS, TEACHING TECHNIQUES

12. SE 500 092
MILNE, ESTHER
SUBTRACTION OF INTEGERS--DISCOVERED THROUGH A GAME
THE ARITHMETIC TEACHER
02 00 69 2
*AUDIOVISUAL AIDS, *ELEMENTARY SCHOOL MATHEMATICS, *INSTRUCTION, *SUBTRACTION, ARITHMETIC

13. SE 007 201
MCLANE, LYN
PROBABILITY LESSONS AT HANCOCK SCHOOL, CAMBRIDGE CONFERENCE ON SCHOOL MATHEMATICS FEASIBILITY STUDY NUMBER 41
CAMBRIDGE CONFERENCE ON SCHOOL MATHEMATICS, NEWTON, MASSACHUSETTS
EDRS, NATIONAL CASH REGISTER COMPANY, 4936 FAIRMONT AVENUE, BETHESDA, MARYLAND
ED 033 026 MF $0.50 HC NOT AVAILABLE FROM EDRS
69 74
ARITHMETIC, *ELEMENTARY SCHOOL MATHEMATICS, GRADE 4, GRADE 5, GRADE 6, *INSTRUCTION, INSTRUCTIONAL MATERIALS, *PROBABILITY, RESOURCE MATERIALS, CAMBRIDGE CONFERENCE ON SCHOOL MATHEMATICS

14. SE 500 090
NELSON, DIANE; NELSON, MARVIN N.
PEGBOARD MULTIPLICATION OF A FRACTION BY A FRACTION
THE ARITHMETIC TEACHER
02 00 69 3
*AUDIOVISUAL AIDS, *ELEMENTARY SCHOOL MATHEMATICS, *INSTRUCTIONAL MATHERIALS, *MULTIPLICATION, ARITHMETIC, INSTRUCTION, MATHEMATICS

15. SE 500 474
OGLETREE, EARL
GEOMETRY: AN ARTISTIC APPROACH
THE ARITHMETIC TEACHER
10 00 69 5
*ELEMENTARY SCHOOL MATHEMATICS, *GEOMETRIC CONCEPTS, *INSTRUCTION, CURRICULUM, GEOMETRY, MATERIAL DEVELOPMENT, TEACHING TECHNIQUES

16. SE 500 220
OOSSE, WILLIAM J.
PROPERTIES OF OPERATION: A MEANINGFUL STUDY
THE ARITHMETIC TEACHER
04 00 69 5
*ELEMENTARY SCHOOL MATHEMATICS, *INSTRUCTION, *MATHEMATICS, *NUMBER CONCEPTS, ARITHMETIC, TEACHING TECHNIQUES, WHOLE NUMBERS

17. SE 006 639
PENNSYLVANIA STATE DEPARTMENT OF PUBLIC INSTRUCTION
BEHAVIOR AUTHORITY LIST PRIMES
PENNSYLVANIA STATE DEPARTMENT OF PUBLIC INSTRUCTION, HARRISBURG
07 00 67 104
*ARITHMETIC, *CURRICULUM DEVELOPMENT, *ELEMENTARY SCHOOL MATHEMATICS, *MATHEMATICS EDUCATION, *TERMINOLOGY, CONCEPTS, FUNDAMENTAL CONCEPTS, GEOMETRY, GUIDELINES, MATHEMATICS, VOCABULARY, PENNSYLVANIA RETRIEVAL OF INFORMATION FOR MATHEMATICS EDUCATION SYSTEM

18. SE 500 089
PINCUS, MORRIS
ADDITION AND SUBTRACTION FRACTION ALGORISMS
THE ARITHMETIC TEACHER
02 00 69 2
*ADDITION, *ELEMENTARY SCHOOL MATHEMATICS, *FRACTIONS, *INSTRUCTION, *SUBTRACTION, ARITHMETIC, MATHEMATICAL CONCEPTS, MATHEMATICS

19. 500 228
RASOF, ELVIN
THE FUNDAMENTAL PRINCIPLE OF COUNTING, TREE DIAGRAMS, AND THE NUMBER OF DIVISORS OF A NUMBER (THE NU-FUNCTION)
THE ARITHMETIC TEACHER
04 00 69 3
*DIVISION, *ELEMENTARY SCHOOL MATHEMATICS, *NUMBER CONCEPTS, *TEACHING TECHNIQUES, *WHOLE NUMBERS, ARITHMETIC

20. SE 500 476
RIEDESEL, C. ALAN; SUYDAM, MARILYN N.
RESEARCH ON MATHEMATICS EDUCATION, GRADE K-8, FOR 1968
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10 00 69 12
*ANNOTATED BIBLIOGRAPHIES, *BIBLIOGRAPHIES, *LIBRARY MATERIALS, *RESEARCH, *RESEARCH REVIEWS (PUBLICATIONS), ELEMENTARY SCHOOL MATHEMATICS, MATHEMATICS EDUCATION

21. SE 500 473
STRAIN, LUCILLE B.
CHILDREN'S LITERATURE: AN AID IN MATHEMATICS INSTRUCTION
THE ARITHMETIC TEACHER
10 00 69 5
*BIBLIOGRAPHIES, *ELEMENTARY SCHOOL MATHEMATICS, *LITERATURE GUIDES, *LIBRARY MATERIALS, GEOMETRIC CONCEPTS, MEASUREMENT, NUMBERS, TIME

22. SE 500 478
TEEGARDEN, DONALD O.
GEOMETRY VIA T-BOARD
THE ARITHMETIC TEACHER
10 00 69 3
*ELEMENTARY SCHOOL MATHEMATICS, *GEOMETRY, *INSTRUCTION, *TEACHING TECHNIQUES, AUDIOVISUAL AIDS, GRADE 5, GRADE 6, LABORATORY TECHNIQUES

23. SE 500 465
VEST, FLOYD R.
A CATALOG OF MODELS FOR THE OPERATIONS OF ADDITIONS AND SUBTRACTION OF WHOLE NUMBERS
EDUCATIONAL STUDIES IN MATHEMATICS
07 00 69 10
*ARITHMETIC, *ADDITION, *INSTRUCTION, *MATHEMATICAL MODELS, *SUBTRACTION, ELEMENTARY SCHOOL MATHEMATICS, WHOLE NUMBERS

B. SECONDARY EDUCATION

1. BIOLOGICAL SCIENCES AND HEALTH EDUCATION

1. SE 500 068
ALLEN, DOROTHEA
CELL AND TISSUE CULTURE STUDIES
THE AMERICAN BIOLOGY TEACHER
01 00 69 6
*BIOLOGY, *CYTOLOGY, *INSTRUCTION, *LABORATORY TECHNIQUES, *SECONDARY SCHOOL SCIENCE, COLLEGE SCIENCE, MICROBIOLOGY, RESOURCE MATERIALS, SCIENCE ACTIVITIES

2. SE 500 376
BROWN, ROBERT E.
DETECTION AND ANALYSIS OF AIR AND WATER POLLUTANTS
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05 00 69 3
*NATURAL RESOURCES, *POLLUTION, *SCIENCE ACTIVITIES, INSTRUCTION, RESOURCE MATERIALS, SECONDARY SCHOOL SCIENCE, WORLD PROBLEMS

3. SE 006 545
BUSCH, PHYLLIS S.
VENERAL DISEASE, A TEACHING REFERENCE GUIDE
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ED 028 940 MF $0.50 HC $4.60
64 90
*DISEASES, *HEALTH EDUCATION, *SECONDARY SCHOOL SCIENCE, *TEACHING GUIDES, AUDIOVISUAL AIDS, BIBLIOGRAPHIES, DISEASE CONTROL, RESOURCE MATERIALS, YOUTH PROBLEMS

4. SE 007 402
COLE, JAMES E.
PRELIMINARY INVESTIGATION OF SUCCESSION OF INVERTEBRATES IN POND INFUSION CULTURES
SCHOOL SCIENCE AND MATHEMATICS
04 00 63 7
*AQUATIC BIOLOGY, *ECOLOGY, *LABORATORY PROCEDURES, *SECONDARY SCHOOL SCIENCE, BIOLOGY, MICROBIOLOGY, SCIENCE ACTIVITIES, TEACHING GUIDES

5. SE 006 103
DAVIS, ROBERT C.; AND OTHERS
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EDUCATIONAL RESEARCH COUNCIL OF AMERICA, CLEVELAND, OHIO
10 00 68 61
*BOTANY, *INSTRUCTIONAL MATERIALS, *PHYSIOLOGY, *SECONDARY SCHOOL SCIENCE, *SCIENCE ACTIVITIES, BIOLOGY, EVALUATION, TESTS, TEACHING GUIDES, EDUCATIONAL RESEARCH COUNCIL

6. SE 500 141
DIESNER, RICHARD H.
CONTINUOUS-PROGRESS APPROACH IN BIOLOGY
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03 00 69 3
*BIOLOGY, *GENERAL SCIENCE, *INSTRUCTION, *SECONDARY SCHOOL SCIENCE, *SCIENCE EXPERIMENTS, BIOCHEMISTRY, PLANT GROWTH, SCIENCE ACTIVITIES

7. SE 006 483
DYER, K. F.
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12 00 68 21
*BIOLOGY, *EVOLUTION, *RESOURCE MATERIALS, BOTANY, REFERENCE MATERIALS, SECONDARY SCHOOL SCIENCE, ZOOLOGY

8. SE 006 487
EVANS, S. M.
THE STUDY OF BIRD BEHAVIOR IN SCHOOLS
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*ANIMAL BEHAVIOR, *SCIENCE ACTIVITIES, *ZOOLOGY, BIOLOGY, INSTRUCTION, RESOURCE MATERIALS, SECONDARY SCHOOL SCIENCE, SCIENCE EXPERIMENTS

9. SE 006 642
FITZGIBBONS, ROBERT C.
ABOUT MICROSCOPES
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*EQUIPMENT MAINTENANCE, *MICROSCOPES, *SCIENCE EQUIPMENT, BIOLOGY, LABORATORY EQUIPMENT, LABORATORY TECHNIQUES, SECONDARY SCHOOL SCIENCE

10. SE 500 446
HECHTLINGER, ADELAIDE; HERMAN, NETTIE
A SIMPLIFIED METHOD FOR RAPID THIN LAYER CHROMATOGRAPHY
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09 00 69 3
*BIOLOGY, *CHROMATOGRAPHY, *LABORATORY TECHNIQUES, *SCIENCE ACTIVITIES, SCIENCE EXPERIMENTS, SECONDARY SCHOOL SCIENCE, 1969

11. SE 006 486
HOSTE, R.
THE USE OF TRIBOLIUM BEETLES FOR CLASS PRACTICAL WORK IN GENETICS
JOURNAL OF BIOLOGICAL EDUCATION
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*GENETICS, *SCIENCE ACTIVITIES, *ZOOLOGY, BIOLOGY, INSTRUCTION, LABORATORY EXPERIMENTS, RESOURCE MATERIALS, SECONDARY SCHOOL SCIENCE

12. SE 500 385
KUHN, DAVID J.
THE DUCKWEED
THE AMERICAN BIOLOGY TEACHER
05 00 69 2
*BOTANY, *INSTRUCTION, *SCIENCE EXPERIMENTS, BIOLOGY, RESOURCE MATERIALS, SECONDARY SCHOOL SCIENCE, SCIENCE ACTIVITIES, DUCKWEED

13. SE 500 046
KUHN, DAVID J.
A SIMULATION GAME ON NATURAL SELECTION
THE SCIENCE TEACHER
01 00 69 1
*BIOLOGY, *INSTRUCTION, *SECONDARY SCHOOL SCIENCE, ECOLOGY, MODELS, POPULATION GROWTH, SIMULATION

14. SE 500 380
LEROY, BROTHER
AMINO ACID CHROMATOGRAPHY
THE AMERICAN BIOLOGY TEACHER
05 00 69 2
*BIOLOGY, *CHROMATOGRAPHY, *SCIENCE ACTIVITIES, INSTRUCTION, LABORATORY TECHNIQUES, RESOURCE MATERIALS, SECONDARY SCHOOL SCIENCE

15. SE 006 025
LOUGHLIN, L. R.
THE USE OF XENOPUS LAEVIS IN HIGH SCHOOL SCIENCE
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11 00 68 4
*BIOLOGY, *LABORATORY TECHNIQUES, *SECONDARY SCHOOL SCIENCE, *SCIENCE ACTIVITIES, *SCIENCE LABORATORIES, LABORATORY ORGANISMS, RESOURCE MATERIALS, XENOPUL LAEVIS

16. SE 500 789
MUSGRAVE, A. J.
TEAM PARTICIPATION IN ENVIRONMENTAL BIOLOGY
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10 00 69 6
*BIOLOGY, *ECOLOGY, *LABORATORY, PROCEDURES, *SCIENCE ACTIVITIES, *SECONDARY SCHOOL SCIENCE, 1969

17. SE 500 044
NORRIS, DAVID O.
MUTATION AND DRUG RESISTANCE IN BACTERIA - A LABORATORY EXPERIENCE
THE SCIENCE TEACHER
01 00 69 2
*MICROBIOLOGY, *SECONDARY SCHOOL SCIENCE, *SCIENCE EXPERIMENTS

18. SE 500 250
PIERCE, RAYMOND G.
PROGRAMING THE INSECT'S LIFE CYCLE
THE SCIENCE TEACHER
04 00 69 5
*ENTOMOLOGY, *PHYSIOLOGY, *REFERENCE MATERIALS, BIOLOGY, SCIENCE EXPERIMENTS, SECONDARY SCHOOL SCIENCE, *INSECTS

19. SE 006 024
PLETCHER, FERDINAND T.
INQUIRY INTO LIFE PROCESSES USING LIVE LAMPREYS IN THE LABORATORY OR CLASSROOM
THE AMERICAN BIOLOGY TEACHER
11 00 68 5
*BIOLOGY, *LIFE PROCESSES, *SECONDARY SCHOOL SCIENCE, *SCIENCE ACTIVITIES, INSTRUCTIONAL MATERIALS, ZOOLOGY, LAMPREYS

20. SE 006 531
POUND, A. E.
BIOLOGY REVISION NOTES FOR ORDINARY LEVEL
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67 119
*BIOLOGY, *CURRICULUM DEVELOPMENT, *INSTRUCTIONAL MATERIALS, *INTERNATIONAL EDUCATION, *SECONDARY SCHOOL SCIENCE, BIOLOGICAL SCIENCES, COURSE DESCRIPTIONS, COURSE ORGANIZATION, GRADE 10, GREAT BRITAIN

21. SE 500 199
ROSE, SUSAN L.; MACRAE, EDITH K.
PLANARIAN REGENERATION
THE AMERICAN BIOLOGY TEACHER
03 00 69 6
*BIOLOGY, *LABORATORY EXPERIMENTS, *PHYSIOLOGY, *SCIENCE ACTIVITIES, SCIENCE MATERIALS, SECONDARY SCHOOL SCIENCE, ZOOLOGY, PLANARIA

22. SE 500 072
VOGEL, LUTHER H.
SLIME MOLDS FOR BIOLOGICAL SCIENCES CURRICULUM STUDY LAB EXERCISES
THE AMERICAN BIOLOGY TEACHER
01 00 69 3
*BIOLOGY, *LABORATORY TECHNIQUES, *MICROBIOLOGY, *SECONDARY SCHOOL SCIENCE, BOTANY, COLLEGE SCIENCE, INSTRUCTION, RESOURCE MATERIALS, SCIENCE ACTIVITIES, BIOLOGICAL SCIENCES CURRICULUM STUDY

2. PHYSICAL SCIENCES AND EARTH SCIENCES

1. SE 500 140
AMEND, JOHN R.
INFORMATION FROM LIGHT - PIPPENBLOOPERS TO STARS
THE SCIENCE TEACHER
03 00 69 5
*ASTRONOMY, *PHYSICS, *SECONDARY SCHOOL SCIENCE, *SCIENCE EQUIPMENT, PHYSICAL SCIENCES, SCIENCE EXPERIMENTS, SCIENCE ACTIVITIES

2. SE 007 080
ARCHENHOLD, W. F.
ELECTROMAGNETISM USING S. I. UNITS
PHYSICS EDUCATION
09 00 66 9
*ELECTRICITY, *INTERNATIONAL EDUCATION, *MAGNETISM, *PHYSICS, *SECONDARY SCHOOL SCIENCE, ELECTROMAGNETISM, LABORATORY EXPERIMENTS, SCIENCE ACTIVITIES, SCIENCE MATERIALS

3. SE 500 405
CHESLEY, ROBERT E.
A FLIGHT TO REALITY
THE PHYSICS TEACHER
05 00 69 2
*PHYSICAL SCIENCES, *SCIENCE ACTIVITIES, AEROSPACE TECHNOLOGY, PHYSICS, SECONDARY SCHOOL SCIENCE

4. SE 004 214
COMMISSION ON ENGINEERING EDUCATION
THE MAN MADE WORLD, TEACHER'S MANUAL
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EDRS, NATIONAL CASH REGISTER COMPANY, 4936 FAIRMONT AVENUE, BETHESDA, MARYLAND
ED 016 634 MF $0.75 HC $20.05
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*CURRICULUM DEVELOPMENT, *CURRICULUM, COMPUTERS, *ENGINEERING, *MATHEMATICS, *PHYSICAL SCIENCES, *SECONDARY SCHOOL SCIENCE, *TEACHING GUIDES, TECHNOLOGY, BIBLIOGRAPHIES, ALGEBRA, EDUCATIONAL OBJECTIVES, SCIENCE ACTIVITIES

5. SE 006 271
DEAN, C. THOMAS
MODEL SPACECRAFT CONSTRUCTION, UNITS FOR SECONDARY SCHOOL INDUSTRIAL ARTS
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION, WASHINGTON, D.C.
EDRS, NATIONAL CASH REGISTER COMPANY, 4936 FAIRMONT AVENUE, BETHESDA, MARYLAND
ED 026 276 MF $0.75 HC $9.50
66 188
*EARTH SCIENCE, *INDUSTRIAL ARTS, *SCIENCE ACTIVITIES, *SECONDARY SCHOOL SCIENCE, AEROSPACE TECHNOLOGY, INSTRUCTIONAL MATERIALS, LABORATORY MANUALS, MODELS, NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

6. SE 007 068
DOTY, GENE
AN INTRODUCTION TO LABORATORY CHEMISTRY
NORTHWEST LIBRARY SERVICE, PORTLAND, OREGON
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ED 031 398 NOT AVAILABLE FROM EDRS
69 120
*CHEMISTRY, *INSTRUCTIONAL MATERIALS, *LABORATORY MANUALS, LABORATORY EXPERIMENTS, *SECONDARY SCHOOL SCIENCE, *SCIENCE ACTIVITIES, SCIENCE EQUIPMENT

7. SE 006 619
EISS, ALBERT F.
A UNIVERSE TO EXPLORE, A SPACE SCIENCES SOURCE BOOK FOR JUNIOR HIGH SCHOOL TEACHERS
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION; NATIONAL SCIENCE TEACHERS ASSOCIATION
NATIONAL SCIENCE TEACHERS ASSOCIATION, 1201 SIXTEENTH STREET, N.W., WASHINGTON, D.C.
ED 028 946 NOT AVAILABLE FROM EDRS
69 144
*AEROSPACE TECHNOLOGY, *EARTH SCIENCE, *SECONDARY SCHOOL SCIENCE, *TEACHING GUIDES, AUDIOVISUAL AIDS, BIBLIOGRAPHIES, JUNIOR HIGH SCHOOLS, LABORATORY EXPERIMENTS, NATIONAL SCIENCE TEACHERS ASSOCIATION, NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

8. SE 500 868
ELMER, RUDY P.
COMPUTERS, HOW AND WHY USE THEM IN HIGH SCHOOL?
THE SCIENCE TEACHER
11 00 69 2
*COMPUTERS, *COURSE OBJECTIVES, *COMPUTER ASSISTED INSTRUCTION, *SECONDARY SCHOOL SCIENCE, EARTH SCIENCE, MEASUREMENT, STUDENT PARTICIPATION, 1969

9. SE 006 268
FEIRER, JOHN L.
SPACE RESOURCES FOR THE HIGH SCHOOL INDUSTRIAL ARTS RESOURCE UNITS
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION, WASHINGTON, D.C.
EDRS, NATIONAL CASH REGISTER COMPANY, 4936 FAIRMONT AVENUE, BETHESDA, MARYLAND
ED 026 273 MF $0.75 HC $8.80
04 00 67 178
*AEROSPACE TECHNOLOGY, *INDUSTRIAL ARTS, *SECONDARY SCHOOL SCIENCE, *TEACHING GUIDES, BIBLIOGRAPHIES, EARTH SCIENCE, FILMS, INSTRUCTIONAL MATERIALS, NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

10. SE 500 271
FISHER, MERLE
AN EXPERIENCE IN OBSERVATION
THE PHYSICS TEACHER
03 00 69 2
*INSTRUCTION, *PHYSICS, *PROBLEM SOLVING, *SECONDARY SCHOOL SCIENCE, *SCIENCE ACTIVITIES, INQUIRY TRAINING, INDUCTIVE METHODS, PHYSICAL SCIENCES

11. SE 500 365
FRANKLIN, WILLIAM R.
THE PSYCHEDELIC STUDENT-GETTER
THE PHYSICS TEACHER
04 00 69 2
*INSTRUCTION, *LIGHT, *PHYSICAL SCIENCES, *PHYSICS, SECONDARY SCHOOL SCIENCE, SCIENCE ACTIVITIES, TEACHING TECHNIQUES

12. SE 500 020
GOTTLIEB, HERBERT H.
APPARATUS FOR TEACHING PHYSICS
THE PHYSICS TEACHER
01 00 69 2
*LABORATORY TECHNIQUES, *PHYSICS, *SECONDARY SCHOOL SCIENCE, *TEACHING TECHNIQUES, ELECTRICITY, ELECTRIC CIRCUITS, INSTRUCTIONAL MATERIALS, SCIENCE EQUIPMENT

13. SE 006 752
GRAHAM, MILDRED W.
SELECTED BIBLIOGRAPHY FOR EARTH SCIENCE EDUCATION
UNPUBLISHED
66 11
*BIBLIOGRAPHIES, *EARTH SCIENCE, *TEACHER RESOURCE MATERIALS

14. SE 006 374
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HARVARD PROJECT PHYSICS, HARVARD UNIVERSITY, CAMBRIDGE, MASSACHUSETTS
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12 00 68 13
*CURRICULUM DEVELOPMENT, *LABORATORY EQUIPMENT, *PHYSICS, *SCIENCE COURSE IMPROVEMENT PROJECT, *SECONDARY SCHOOL SCIENCE, ASTRONOMY, GRADE 12, PHYSICS TEACHERS, NEWSLETTERS, SCIENCE ACTIVITIES, TEXTBOOKS, HARVARD PROJECT PHYSICS

15. SE 500 107
KANE, JULIAN
DO METEORS INFLUENCE PRECIPITATION?
THE SCIENCE TEACHER
02 00 69 4
*EARTH SCIENCE, *METEOROLOGY, *SCIENTIFIC RESEARCH, REFERENCE MATERIALS, SECONDARY SCHOOL SCIENCE, SCIENTIFIC CONCEPTS

16. SE 006 644
PECAR, ALLEN J.
A NEW WAY TO DETECT DISTORTION IN A STEREO RECORD PLAYER
METROPOLITAN DETROIT SCIENCE REVIEW
69 3
*DEMONSTRATIONS (EDUCATIONAL), *PHYSICAL SCIENCE, *PHYSICS, *SECONDARY SCHOOL SCIENCE, PHONOGRAPH RECORD, SCIENCE DEMONSTRATIONS

17. SE 007 067
RICHARDS, JAMES E.
CONCEPTUAL SCIENCE EXPERIENCES FOR JUNIOR HIGH SCHOOL
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ED 030 567 NOT AVAILABLE FROM EDRS
69 143
GRADE 7, GRADE 8, GRADE 9, *INSTRUCTION, *PHYSICAL SCIENCES, *RESOURCE MATERIALS, SCIENTIFIC CONCEPTS, *SECONDARY SCHOOL SCIENCE, *SCIENCE UNITS, *SCIENCE ACTIVITIES, *TEACHING GUIDES

18. SE 007 078
RICHMOND, P. E.
THE PELTIER EFFECT
PHYSICS EDUCATION
09 00 66 9
*HEAT PUMPS, *PHYSICS, *SCIENCE APPLICATIONS, *SECONDARY SCHOOL SCIENCE, *TECHNOLOGY, ENGINEERING, INTERNATIONAL EDUCATION, SCIENCE PROJECTS, REGNAULT'S HYGROMETER, SEEBECK EFFECT, THOMSON EFFECT, GREAT BRITAIN, PELTIER EFFECT

19. SE 500 364
SIEGEL, RICHARD S.
PREFERENTIAL DISCHARGE OF NEGATIVELY CHARGED BODIES BY CERTAIN INCANDESCENT WIRES OF THE CASE OF THE OVERACHIEVING QUANTA
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04 00 69 2
*ELECTRICITY, *PHYSICAL SCIENCES, *PHYSICS, *SECONDARY SCHOOL SCIENCE, ELECTRONICS, SCIENCE ACTIVITIES

20. SE 500 366
TIPTON, CARL K.
GRAPHITE REACTOR: NUCLEAR LANDMARK OPENED TO PUBLIC
THE PHYSICS TEACHER
04 00 69 2
*FIELD TRIPS, *NUCLEAR PHYSICS, *PHYSICS, *PHYSICAL SCIENCES, *SCIENCE FACILITIES, SECONDARY SCHOOL SCIENCE, SCIENCE ACTIVITIES, OAK RIDGE NATIONAL LABORATORY

21. SE 006 472
TROOST, CORNELIUS J.
ON THE TEACHING OF ORIGINS
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12 00 68 2
*ASTRONOMY, *CURRICULUM, *EARTH SCIENCE, *PHILOSOPHY, *SECONDARY SCHOOL SCIENCE, THEOLOGY

22. SE 004 289
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EDUCATIONAL SERVICES, INC., WATERTOWN, MASSACHUSETTS
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67 336
*CURRICULUM DEVELOPMENT, *PHYSICAL SCIENCES, *SECONDARY SCHOOL SCIENCE, *TEACHING GUIDES, INSTRUCTION, TEACHING PROCEDURES

1. SE 006 659
ANDERSON, JACQUELYN; AND OTHERS
IMBEDDING COMPUTER PROGRAMMING IN THE MATHEMATICS CURRICULUM. A SERIES OF TEACHING PACKETS PRODUCED BY NEVADA MATHEMATICS COMPUTER CENTER PROJECT
CLARK COUNTY SCHOOL DISTRICT, LAS VEGAS, NEVADA, MATHEMATICS COMPUTER CENTER
06 00 68 125
*CURRICULUM GUIDES, *COMPUTERS, *CURRICULUM DEVELOPMENT, *COMPUTER SCIENCE, COMPUTER ORIENTED PROGRAMS, COMPUTER PROGRAMS, INSTRUCTION, INSTRUCTIONAL MATERIALS, MATHEMATICS, SECONDARY SCHOOL MATHEMATICS, TEACHING TECHNIQUES, TESTS, TEACHER RESOURCE MATERIALS

2. SE 500 278
BAILEY, WILLIAM T.
FRIDAY THE THIRTEENTH
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05 00 69 2
*ALGEBRA, *MATHEMATICS, *PROBLEM SOLVING, *SECONDARY SCHOOL MATHEMATICS, MATHEMATICAL CONCEPTS, PROBABILITY, SET THEORY

3. SE 500 877
BAUMGART, JOHN K.
THE HISTORY OF ALGEBRA
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69 99
*ALGEBRA, *HISTORY, *MATHEMATICS EDUCATION, MATHEMATICAL CONCEPTS, MATHEMATICAL ENRICHMENT, NUMBER CONCEPTS, SECONDARY SCHOOL MATHEMATICS, 1969

4. SE 500 204
BECKENBACH, EDWIN F.
ON THE POSITIVE SQUARE ROOT OF TWO
THE MATHEMATICS TEACHER
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*GEOMETRIC CONCEPTS, *MATHEMATICS, *SECONDARY SCHOOL MATHEMATICS, ALGEBRA, GEOMETRY

5. SE 500 131
BOE, BARBARA L.
GROUP THEORY AND THE SOLVABILITY OF EQUATIONS
SCHOOL SCIENCE AND MATHEMATICS
02 00 69 5
*ALGEBRA, *GROUP THEORY, *MATHEMATICS, *SECONDARY SCHOOL MATHEMATICS, MATHEMATICIANS

6. SE 006 665
EASTON, JOY B.
THE RULE OF DOUBLE FALSE POSITION
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01 00 67
*ALGEBRA, *SECONDARY SCHOOL MATHEMATICS, GEOMETRY, MATHEMATICS, PROBLEM SOLVING, REFERENCE MATERIALS

7. SE 500 876
EVES, HOWARD
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69 67
*GEOMETRY, *GEOMETRIC CONCEPTS, *HISTORY, *MATHEMATICS EDUCATION, MATHEMATICAL ENRICHMENT, SECONDARY SCHOOL MATHEMATICS, 1969

8. SE 500 096
FORSYTHE, ALEXANDRA
WHAT POINTS ARE EQUIDISTANT FROM TWO SKEW LINES?
THE MATHEMATICS TEACHER
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*ANALYTIC GEOMETRY, *GEOMETRY, *INSTRUCTION, *MATHEMATICS, *SECONDARY SCHOOL MATHEMATICS, GEOMETRIC CONCEPTS

9. SE 500 450
FRANDSEN, HENRY
THE LAST WORD ON SOLVING INEQUALITIES
THE MATHEMATICS TEACHER
10 00 69 3
*ALGEBRA, *INSTRUCTION, *INEQUALITIES, *PROBLEM SOLVING, *SECONDARY SCHOOL MATHEMATICS, MATHEMATICS, TEACHING PROCEDURES

10. SE 500 839
FREDERIKSEN, JOHN G.
SQUARE ROOT +
THE ARITHMETIC TEACHER
11 00 69 7
*INSTRUCTION, *TEACHING TECHNIQUES, ARITHMETIC, GRADE 7, NUMBER CONCEPTS, SQUARE ROOT

11. SE 500 453
GEDDES, DOROTHY; LIPSEY, SALLY I.
THE HAZARDS OF SETS
THE MATHEMATICS TEACHER
10 00 69 6
*INSTRUCTION, *MATHEMATICAL CONCEPTS, *SET THEORY, *SECONDARY SCHOOL MATHEMATICS, RESOURCE MATERIALS

12. SE 500 466
GLAYMANN, MAURICE
INITIATION TO VECTOR SPACES
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07 00 69 11
*GEOMETRY, *GEOMETRIC CONCEPTS, *INSTRUCTION, *SECONDARY SCHOOL MATHEMATICS, *VECTOR SPACE

13. SE 500 874
GUNDLACH, BERNARD H.
THE HISTORY OF NUMBERS AND NUMERALS
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*HISTORY, *MATHEMATICS EDUCATION, *NUMBER SYSTEMS, *NUMBER CONCEPTS, *RESOURCE MATERIALS, MATHEMATICAL CONCEPTS, MATHEMATICAL ENRICHMENT, SECONDARY SCHOOL MATHEMATICS, 1969

14. SE 500 126
HICKEN, BARON B.
SOME INTERESTING MATHEMATICAL AND OPTICAL PROPERTIES OF PARABOLAS AND PARABOLIC SURFACES
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02 00 69 9
*ANALYTIC GEOMETRY, *LIGHT, *MATHEMATICS, *PHYSICS, GEOMETRIC CONCEPTS, MATHEMATICAL MODELS, OPTICS, PHYSICAL SCIENCES, SECONDARY SCHOOL MATHEMATICS, TEACHING PROCEDURES

15. SE 500 455
HIRSCH, JOSEPH
PRIME TRIPLETS
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10 00 69 5
*COMPUTER ASSISTED INSTRUCTION, *INSTRUCTION, *NUMBER CONCEPTS, *PRIME NUMBERS, *SECONDARY SCHOOL MATHEMATICS, WHOLE NUMBERS

16. SE 500 854
ID, YUSUF; KENNEDY, E.
A MEDIEVAL PROOF OF HERON'S FORMULA
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*ALGEBRA, *GEOMETRIC CONCEPTS, *HISTORY, *RESOURCE MATERIALS, *SECONDARY SCHOOL MATHEMATICS, GEOMETRY, MATHEMATICS

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JOHNSON, DONOVAN A.; RISING, GERALD R.
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KANTER, L. H.
GEOMETRIC DERIVATION OF THE HALF-ANGLE FORMULAS FOR AN ACUTE ANGLE
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*GEOMETRY, *MATHEMATICS, *SECONDARY SCHOOL MATHEMATICS, REFERENCE MATHERIALS

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KENNEDY, EDWARD S.
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*HISTORY, *MATHEMATICS EDUCATION, *TRIGONOMETRY, MATHEMATICAL CONCEPTS, MATHEMATICAL ENRICHMENT, SECONDARY SCHOOL MATHEMATICS, 1969

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KLEBER, RICHARD S.
A CLASSROOM ILLUSTRATION OF A NONINTUITIVE PROBABILITY
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*MATHEMATICS, *PROBLEM SOLVING, *PROBABILITY, *SECONDARY SCHOOL MATHEMATICS, PREDICTIVE MEASUREMENT, TEACHING PROCEDURES

21. SE 500 454
MATTHEWS, E. REBECCA
A SIMPLE "7" DIVISIBILITY RULE
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10 00 69 4
*ARITHMETIC, *DIVISION, *INSTRUCTION, *SECONDARY SCHOOL MATHEMATICS, *TEACHING TECHNIQUES

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MILLER, WILLIAM A.
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*INSTRUCTION, *MODERN MATHEMATICS, *SECONDARY SCHOOL MATHEMATICS, ARITHMETIC, CALCULATION, INTEGERS, 1969

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NANNINI, AMOS
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11 00 66 3
*MATHEMATICS, *MATHEMATICAL ENRICHMENT, *TEACHER RESOURCE MATHERIALS, ALGEBRA, ENRICHMENT, GEOMETRY, MATHEMATICAL CONCEPTS, RESOURCE MATERIALS, REFERENCE MATERIALS, SECONDARY SCHOOL MATHEMATICS

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NEW YORK CITY BOARD OF EDUCATION, BROOKLYN
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EDRS, NATIONAL CASH REGISTER COMPANY, 4936 FAIRMONT AVENUE, BETHESDA, MARYLAND
ED 024 600 MF $1.25 HC NOT AVAILABLE FROM EDRS
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*ALGEBRA, *INSTRUCTION, *MATHEMATICS, *SECONDARY SCHOOL MATHEMATICS, *TEACHING GUIDES, CURRICULUM, GEOMETRY, GRADE 9, MATHEMATICAL CONCEPTS, NUMBER CONCEPTS, BOARD OF EDUCATION, NEW YORK CITY, NEW YORK

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PRIELIPP, ROBERT W.
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11 00 69 2
*MATHEMATICAL CONCEPTS, *SECONDARY SCHOOL MATHEMATICS, ALGEBRA, GEOMETRY, NUMBER CONCEPTS

26. SE 500 167
PRIELIPP, ROBERT W.
DIGITAL SUMS OF PERFECT NUMBERS AND TRIANGULAR NUMBERS
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03 00 69 4
*DISCOVERY LEARNING, *MATHEMATICAL CONCEPTS, *NUMBER CONCEPTS, *SECONDARY SCHOOL MATHEMATICS, ALGEBRA, MATHEMATICS

27. SE 006 880
PURSELL, LYLE E.
THE AREA UNDER A PARABOLA BY CAVALIERI'S RULE
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05 00 67 2
*MATHEMATICS, *MATHEMATICAL ENRICHMENT, *TEACHER RESOURCE MATHERIALS, ALGEBRA, ENRICHMENT, GEOMETRY, MATHEMATICAL CONCEPTS, MATHEMATICS INSTRUCTION, REFERENCE MATERIALS, RESOURCE MATERIALS, SECONDARY SCHOOL MATHEMATICS

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WILLSON, WILLIAM WYNNE
THE UNIQUENESS OF THE FIELD OF COMPLEX NUMBER
THE MATHEMATICS TEACHER
05 00 69 4
*ALGEBRA, *COMPLEX NUMBERS, *MATHEMATICS, *NUMBER CONCEPTS, *SECONDARY SCHOOL MATHEMATICS, MATHEMATICAL CONCEPTS

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WILSON, JOHN
A HEURISTIC APPROACH TO PYTHAGOREAN TRIPLES
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*ALGEBRA, *DISCOVERY PROCESSES, *MATHEMATICS, *PROBLEM SOLVING, *SECONDARY SCHOOL MATHEMATICS, MATHEMATICAL CONCEPTS, TEACHING PROCEDURES

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TRICKY, TROUBLESOME TRIANGLES
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*GEOMETRY, *INSTRUCTION, *MATHEMATICS, *SECONDARY SCHOOL MATHEMATICS, ALGEBRA, MATHEMATICAL ENRICHMENT

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BAIZ, VICTOR F.
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SCIENCE-MATHEMATICS IMPROVEMENT PROJECT, WILKES COLLEGE, WILKES-BARRE, PENNSYLVANIA
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*DEMONSTRATIONS (EDUCATIONAL), *MEASUREMENT, *NEWSLETTERS, *SCIENTIFIC METHODOLOGY, COMPUTER PROGRAMS, CURRICULUM CLASSROOM COMMUNICATION, MATHEMATICS MATERIALS, PROFESSIONAL ASSOCIATIONS, STATISTICS, SECONDARY SCHOOL SCIENCE, SCIENCE COURSE IMPROVEMENT PROJECT, 1968

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BAIZ, VICTOR F.
SCIENCE-MATHEMATICS IMPROVEMENT PROJECT NEWSLETTER, VOLUME 1 NUMBER 3
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*PHYSICS, *TEACHER WORKSHOPS, BIOLOGY, COLLEGE PREPARATION, DEMONSTRATIONS (EDUCATIONAL), HARMONIC OSCILLATORS, INTERFERENCE, INSTRUCTION, MATHEMATICS, NEWSLETTERS, SECONDARY SCHOOL SCIENCE, SCIENCE COURSE IMPROVEMENT PROJECT, 1968

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BAIZ, VICTOR F.
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*INQUIRY LEARNING, *MATHEMATICS CONCEPTS, *NEWSLETTERS, *PHYSICS, COLLEGE HIGH SCHOOL COOPERATION, CURRICULUM GUIDES, SECONDARY SCHOOL SCIENCE, SCIENCE COURSE IMPROVEMENT PROJECT, TEACHER WORKSHOPS, 1968, SCIENCE-MATHEMATICS IMPROVEMENT PROJECT CHEMISTRY CURRICULUM GUIDES

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BAIZ, VICTOR F.
SCIENCE-MATHEMATICS IMPROVEMENT PROJECT NEWSLETTER, VOLUME 2 NUMBER 2
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*ASTRONOMY, *HEAT, *RADIOISOTOPES, *SCIENCE MATERIALS, BIOLOGY, CURRICULUM GUIDES, (ENVIRONMENTAL SCIENCE), INSERVICE TEACHER EDUCATION, MATHEMATICS CONCEPTS, NEWSLETTERS, SCIENCE COURSE IMPROVEMENT PROJECT, SCIENCE HISTORY, SECONDARY SCHOOL SCIENCE, 1969

5. SE 006 637
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A PILOT PROGRAM FOR JUNIOR HIGH SCHOOL SCIENCE - GRADE 7
BALTIMORE COUNTY PUBLIC SCHOOLS, MARYLAND
68 340
*CURRICULUM DEVELOPMENT, *EDUCATIONAL PROGRAMS, *SCIENCE PROCESS SKILLS, *SCIENCE ACTIVITIES, *SECONDARY SCHOOL SCIENCE, *TEACHING GUIDES, GRADE 7, LABORATORY MANUALS, BALTIMORE COUNTY PUBLIC SCHOOLS, MARYLAND

6. SE 006 636
BALTIMORE COUNTY PUBLIC SCHOOLS
A PILOT PROGRAM FOR JUNIOR HIGH SCHOOL SCIENCE - GRADE 8
BALTIMORE COUNTY PUBLIC SCHOOLS, MARYLAND
68 400
*CURRICULUM DEVELOPMENT, *EDUCATIONAL PROGRAMS, *SCIENCE ACTIVITIES, *SECONDARY SCHOOL SCIENCE, *TEACHING GUIDES, BIOLOGY, EARTH SCIENCE, GRADE 8, LABORATORY MANUALS, BALTIMORE COUNTY SCHOOLS, MARYLAND

7. SE 006 638
BALTIMORE COUNTY PUBLIC SCHOOLS
A PILOT PROGRAM FOR JUNIOR HIGH SCHOOL SCIENCE - GRADE 9
BALTIMORE COUNTY PUBLIC SCHOOLS, MARYLAND
68 210
*CURRICULUM DEVELOPMENT, *EDUCATIONAL PROGRAMS, *SCIENCE ACTIVITIES, *SECONDARY SCHOOL SCIENCE, *TEACHING GUIDES, GRADE 9, LABORATORY MANUALS, PHYSICAL SCIENCES, RESOURCE MATERIALS, BALTIMORE COUNTY PUBLIC SCHOOLS, MARYLAND

8. SE 500 122
EINHORN, ERWIN
GRAPHING AND THE CENTIGRADE-FAHRENHEIT RELATIONSHIP
SCHOOL SCIENCE AND MATHEMATICS
02 00 69 3
*GRAPHING, *INSTRUCTION, *MATHEMATICS, *SECONDARY SCHOOL MATHEMATICS, ALGEBRA, GENERAL SCIENCE, SECONDARY SCHOOL SCIENCE, TEACHING TECHNIQUES

9. SE 005 911
GUERINGER, JUNE
TEACHER'S GUIDES FOR GRADE 7-BIOSPHERE AND GRADE 8-GEOSCOPE
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EDRS, NATIONAL CASH REGISTER COMPANY, 4936 FAIRMONT AVENUE, BETHESDA, MARYLAND
ED 026 264 MF $0.50 HC $3.80
68 74
*BIOLOGY, *EARTH SCIENCE, *INSTRUCTIONAL TELEVISION, *SECONDARY SCHOOL SCIENCE, *TEACHING GUIDES, GRADE 7, GRADE 8

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HEINLEIN, C. LEROY
ADDITIVES IN MEAT
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*BIOLOGY, *CHEMISTRY, CONSUMER EDUCATION, GRADE 7, GRADE 8, GRADE 9, HEALTH EDUCATION, INSTRUCTION, LABORATORY TECHNIQUES, *SCIENCE ACTIVITIES, *SECONDARY SCHOOL SCIENCE

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KEY, ROBERT E.
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ED 030 564 NOT AVAIABLE FROM EDRS
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BIOLOGY, ECOLOGY, GEOLOGY, INTERNATIONAL EDUCATION, OCEANOLOGY, *RESOURCE MATERIALS, SECONDARY SCHOOL SCIENCE, *TEACHING GUIDES, GUAM

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KIRKPATRICK, HERMAN H.
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68 8
*AUDIOVISUAL AIDS, BIBLIOGRAPHIES, *PHOTOGRAPHY, *SECONDARY SCHOOL SCIENCE, TEACHING TECHNIQUES, NATIONAL SCIENCE TEACHERS ASSOCIATION

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LEE, TOM E.; AND OTHERS
BIOLOGY, SPACE RESOURCES FOR TEACHERS INCLUDING SUGGESTIONS FOR CLASSROOM ACTIVITIES AND LABORATORY EXPERIMENTS
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION, WASHINGTON, D.C.
EDRS, NATIONAL CASH REGISTER COMPANY, 4936 FAIRMONT AVENUE, BETHESDA, MARYLAND
ED 028 941 MF $1.00 HC $11.65
01 00 69 231
*AEROSPACE TECHNOLOGY, *BIOLOGY, *RESOURCE UNITS, *SECONDARY SCHOOL SCIENCE, AUDIOVISUAL AIDS, BIBLIOGRAPHIES, INSTRUCTION, LABORATORY EXPERIMENTS, RESOURCE MATERIALS, SCIENCE ACTIVITIES, SCIENCE UNITS, NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

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EDRS, NATIONAL CASH REGISTER COMPANY, 4936 FAIRMONT AVENUE, BETHESDA, MARYLAND
ED 028 097 MF $0.50 HC $4.60
09 00 68 90
*LABORATORY TECHNIQUES, *MOBILE LABORATORIES, *OCEANOLOGY, *SECONDARY SCHOOL SCIENCE, MANUALS, SCIENCE ACTIVITIES, SCIENCE EQUIPMENT

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MULLIN, W. BRUCE
THE WORKING OF THE HUMAN EYE
PHYSICS EDUCATION
05 00 66 5
*BIOLOGY, DEMONSTRATIONS, *INSTRUCTIONAL MATERIALS, *LABORATORY TECHNIQUES, *LENSES, *PHYSICS, SCIENCE ACTIVITIES, SECONDARY SCHOOL SCIENCE, VISION

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MULLIN, W. BRUCE
THE WORKING OF THE HUMAN EYE II
PHYSICS EDUCATION
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*BIOLOGY, DEMONSTRATIONS, *INSTRUCTIONAL MATERIALS, *LABORATORY TECHNIQUES, *LENSES, *PHYSICS, SCIENCE ACTIVITIES, *SECONDARY SCHOOL SCIENCE, VISION

17. SE 007 093
MULLIN, W. BRUCE
THE WORKING OF THE HUMAN EYE III
PHYSICS EDUCATION
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*BIOLOGY, DEMONSTRATIONS, *INSTRUCTIONAL MATERIALS, *LABORATORY TECHNIQUES, *LENSES, *PHYSICS, SCIENCE ACTIVITIES, SECONDARY SCHOOL SCIENCE, VISION

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MCINTYRE, KENNETH M.
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*AEROSPACE TECHNOLOGY, *INSTRUCTIONAL MEDIA, *RESOURCE GUIDES, *SCIENCE ACTIVITIES, *SECONDARY SCHOOL SCIENCE, EARTH SCIENCE, FILMS, FILMSTRIPS, GRADE 8, TRANSPARENCIES, TEACHING GUIDES, NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

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SHOWALTER, VICTOR; SLESNICK, IRWIN
STUDENT INVESTIGATIONS
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02 00 66 2
*BIOLOGY, *STUDENT RESEARCH, *SECONDARY SCHOOL SCIENCE, SELF-CONCEPT, THE SELF-CONCEPT SCALE

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SOHN, BERNARD I.
MEMBRANE MICROFILTRATION FOR THE SCIENCE LAB
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COWANS, JOSEPH A.; KATZ, SIDNEY A.
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HURLBURT, EVELYN M.
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ADAMS, JAMES H., JR.
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ADVISORY COUNCIL ON COLLEGE CHEMISTRY, STANFORD UNIVERSITY, CALIFORNIA
EDRS, NATIONAL CASH REGISTER COMPANY, 4936 FAIRMONT AVENUE, BETHESDA, MARYLAND
ED 030 563 MF $0.25 HC $0.70
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COMPUTERS, *COLLEGE SCIENCE, *CHEMISTRY, CONFERENCES, CONFERENCE REPORTS, *CURRICULUM, *EDUCATIONAL PROGRAMS, FILMS, JUNIOR COLLEGES, NEWSLETTERS, TEACHER EDUCATION

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DIRECTORY OF PHYSICS AND ASTRONOMY FACULTIES 1968-1969, UNITED STATES/CANADA/MEXICO
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EDRS, NATIONAL CASH REGISTER COMPANY, 4936 FAIRMONT AVENUE, BETHESDA, MARYLAND
ED 026 268 MF $1.00 HC $10.75
68 213
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BENSON, SIDNEY W.
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40. SE 006 423
FEIFER, NATHAN
STUDYING THE CHEMICAL PROPERTIES OF METALLIC ALUMINUM
JOURNAL OF CHEMICAL EDUCATION
10 00 68 1
*CHEMISTRY, *COLLEGE SCIENCE, *CHEMICAL REATIONS, *LABORATORY EXPERIMENTS, SECONDARY SCHOOL SCIENCE, ALUMINUM

41. SE 500 268
GLOVER, FRANCISCO
SPECIFIC HEAT CAPACITY--A QUANTUM EXPLANATION
THE PHYSICS TEACHER
03 00 65 8
*COLLEGE SCIENCE, *HEAT, *PHYSICS, *QUANTUM MECHANICS, KINETIC MOLECULAR THEORY, PHYSICAL SCIENCES, SECONDARY SCHOOL SCIENCE

42. SE 500 406
GOTTLIEB, HERBERT H.
APPARATUS FOR TEACHING PHYSICS
THE PHYSICS TEACHER
05 00 69 4
*PHYSICAL SCIENCES, *PHYSICS, *SCIENCE EXPERIMENTS, *SCIENCE EQUIPMENT, COLLEGE SCIENCE, ELECTRICITY, HEAT, LIGHT, SECONDARY SCHOOL SCIENCE, RADIATION

43. SE 006 027
GRAHAM, S. O.
EFFECTIVE DEMONSTRATION EXERCISES ON SOLVENT-SOLUTE RELATIONS IN CHROMATOGRAPHY
THE AMERICAN BIOLOGY TEACHER
11 00 68 4
*BIOLOGY, *CHROMATOGRAPHY, *LABORATORY TECHNIQUES, *RESOURCE MATERIALS, *SCIENCE ACTIVITIES, COLLEGE SCIENCE, SECONDARY SCHOOL SCIENCE

44. SE 006 419
HAIGHT, G. P.
A TRANSPARENT DUST EXPLOSION APPARATUS
JOURNAL OF CHEMICAL EDUCATION
10 00 68 1
*CHEMISTRY, *COLLEGE SCIENCE, *DEMONSTRATION EQUIPMENT, *LABORATORY EXPERIMENTS, *SCIENCE EQUIPMENT, DEMONSTRATIONS (SCIENCE), LABORATORY EQUIPMENT, SECONDARY SCHOOL SCIENCE

45. SE 006 389
HAMILTON, J. H.; STEVENS, W. H.
AN IMPROVED BLACKBOARD OPTICS SYSTEM
AMERICAN JOURNAL OF PHYSICS
12 00 68 1
*INSTRUCTION, *PHYSICS, *SCIENCE EQUIPMENT, COLLEGE SCIENCE, INSTRUCTIONAL MATERIALS, LIGHT, LABORATORY EXPERIMENTS, LABORATORY EQUIPMENT, OPTICAL INTERFERENCE, OPTICAL EXPERIMENTS, SECONDARY SCHOOL SCIENCE

46. SE 500 775
HAMMING, EDWARD
CONVERSATIONS WITH THE EARTH, A HUMAN APPROACH TO THE EARTH SCIENCES
SCIENCE AND CHILDREN
10 00 69 6
*EARTH SCIENCE, *ELEMENTARY SCHOOL SCIENCE, *NATURAL RESOURCES, *SECONDARY SCHOOL SCIENCE, *SCIENTIFIC CONCEPTS, GEOLOGY, METEOROLOGY, OCEANOLOGY

47. SE 007 263
HOFF, DARREL B.
OVERHEAD PROJECTION WITH THE pH METER
JOURNAL OF CHEMICAL EDUCATION
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ACID-BASE THEORY, *CHEMISTRY, *COLLEGE SCIENCE, *LABORATORY EXPERIMENTS, *OVERHEAD PROJECTORS, PROJECTION EQUIPMENT, SECONDARY SCHOOL SCIENCE, *SCIENCE EQUIPMENT, 1964, BESELER VU LYTE II PROJECTOR, COLEMAND METRION II PH METER

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HUNT, R. G.; SALINGER, G. L.
QUALITATIVE DEMONSTRATIONS AND EXPERIMENTS USING LIQUID NITROGEN
THE PHYSICS TEACHER
05 00 69 2
*HEAT, *PHYSICAL SCIENCES, *PHYSICS, *SCIENCE ACTIVITIES, COLLEGE SCIENCE, SECONDARY SCHOOL SCIENCE

49. SE 007 296
IRBY, BOBBY N.
SLIDE RULE CONVERSION OF [H+] TO pH
JOURNAL OF CHEMICAL EDUCATION
10 00 65 1
*ACIDS, *BASES, *CHEMISTRY, *PH, *SLIDE RULES, COLLEGE SCIENCE, LABORATORY TECHNIQUES, MATHEMATICAL APPLICATIONS, SECONDARY SCHOOL SCIENCE

50. SE 500 607
KAUFFMAN, GEORGE B.
AMERICAN FORERUMMERS OF THE PERIODIC LAW
JOURNAL OF CHEMICAL EDUCATION
03 00 69 8
*CLASSIFICATION, *CHEMISTRY, *SCIENCE HISTORY, ATOMIC THEORY, AMERICAN CULTURE, BIOGRAPHIES, PERIODIC TABLE

51. SE 500 645
KINNEY, G. F.
ATMOSPHERIC PRESSURE FROM BAROMETER READINGS
JOURNAL OF CHEMICAL EDUCATION
05 00 69 2
*AIR PRESSURE, *MEASUREMENT, *PHYSICAL SCIENCES, *PHYSICAL CONSTANTS, *STANDARDS, SYSTEM INTERNATIONAL D' UNITES, SMITHSONIAN METEOROLOGICAL TABLES, 1969

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KNUTSON, P. A.; SALINGER, G. L.
A SIMPLE MEASUREMENT OF THE HEAT OF VAPORIZATION OF LIQUID NITROGEN
THE PHYSICS TEACHER
05 00 69 2
*HEAT, *PHYSICAL SCIENCES, *PHYSICS, *SCIENCE ACTIVITIES, COLLEGE SCIENCE, SECONDARY SCHOOL SCIENCE

53. SE 500 787
KREISLER, MICHAEL N.
ARE THERE FASTER THAN LIGHT PARTICLES?
THE PHYSICS TEACHER
10 00 69 4
*PHYSICS, *RELATIVITY, *RADIATION, *SCIENTIFIC RESEARCH, LABORATORY EQUIPMENT, MEASUREMENT, QUANTUM MECHANICS, TACHYONS, CERENKOV RADIATION, 1969

54. SE 500 014
KUROIWA, DAISUKE
A LIFE OF SNOW
THE PHYSICS TEACHER
01 00 69 11
*EARTH SCIENCE, *METEOROLOGY, *PHYSICAL SCIENCES, *SNOW CRYSTALS, COLLEGE SCIENCE, CHEMICAL BONDING, SECONDARY SCHOOL SCIENCE

55. SE 500 516
LANDE, ALFRED
QUANTUM FACT AND FICTION III
AMERICAN JOURNAL OF PHYSICS
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56. SE 500 568
LAUREN, PAUL M.
OXIDIZING ACTION OF SULFUR DIOXIDE
JOURNAL OF CHEMICAL EDUCATION
01 00 69 1
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LEIBOVITZ, C.
REST MASS IN SPECIAL RELATIVITY
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MANKA, C. K.
A DIRECT MEASUREMENT OF THE SPEED OF SOUND
AMERICAN JOURNAL OF PHYSICS
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MAXFIELD, B. W.
HELICON WAVES IN SOLIDS
AMERICAN JOURNAL OF PHYSICS
03 00 69 29
*PHYSICS, *SCIENTIFIC RESEARCH, MATTER, RADIATION EFFECTS, RESONANCE, SOLID STATE PHYSICS, METALS, PLASMA PHYSICS, WAVES (PHYSICS), LANDAU DAMPING, HELICON WAVES

60. SE 007 050
MEISSNER, HANS
DEMONSTRATION OF DISPLACEMENT CURRENT
AMERICAN JOURNAL OF PHYSICS
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MERRILL, JOHN R.
INFORMATION ON SOME INTERESTING SATELLITES
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62. SE 500 489
MULDAWER, LEONARD
RESOURCE LETTER XR-1 ON X RAYS
AMERICAN JOURNAL OF PHYSICS
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MCGANNON, HAROLD E.
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JOURNAL OF CHEMICAL EDUCATION
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RELATIONSHIP OF ENTHALPY OF SOLUTION, SOLVATION ENERGY, AND CRYSTAL ENERGY
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66. SE 007 281
POONIA, N. S.; GUPTA, H. K. L.
PIPERIDINE -- A SPOT REAGENT FOR Mn (II)
JOURNAL OF CHEMICAL EDUCATION
08 00 65 1
*CHEMISTRY, *COLLEGE SCIENCE, *LABORATORY TECHNIQUES, *QUALITATIVE ANALYSIS, ANALYTICAL CHEMISTRY, METALS, SECONDARY SCHOOL SCIENCE, PIPERIDINE, MANGANESE II

67. SE 500 441
RANK, RONALD I.
SPEED OF A PULSE IN A TRANSMISSION LINE
THE PHYSICS TEACHER
09 00 69 2
*DEMONSTRATIONS (EDUCATIONAL), *ELECTRICITY, *MEASUREMENT, *PHYSICS, *TEACHING TECHNIQUES, SCIENCE ACTIVITIES, 1969

68. SE 500 362
RINEHART, JOHN S.
OLD FAITHFUL GEYSER
THE PHYSICS TEACHER
04 00 69 4
*EARTH SCIENCE, *PHYSICAL SCIENCES, *PHYSICS, OLD FAITHFUL GEYSER, COLLEGE SCIENCE, SECONDARY SCHOOL SCIENCE

69. SE 006 571
ROCKCASTLE, VERNE N.
CORNELL SCIENCE LEAFLET, VOLUME 52, NUMBER 1, EARTH AND BEYOND
CORNELL UNIVERSITY, ITHACA, NEW YORK
58 32
*EARTH SCIENCE, *ELEMENTARY SCHOOL SCIENCE, *SPACE SCIENCE, *SECONDARY SCHOOL SCIENCE, BIBLIOGRAPHIES, PHYSICAL SCIENCES, REFERENCE MATERIALS, SCIENCE ACTIVITIES

70. SE 006 572
ROCKCASTLE, VERNE N.
CORNELL SCIENCE LEAFLET, VOLUME 54, NUMBER 2, WEATHER
CORNELL UNIVERSITY, ITHACA, NEW YORK
01 00 61 31
*ELEMENTARY SCHOOL SCIENCE, *SECONDARY SCHOOL SCIENCE, *SCIENCE ACTIVITIES, *WEATHER, BIBLIOGRAPHIES, CLIMATOLOGY, REFERENCE MATERIALS

71. SE 006 580
ROCKCASTLE, VERNE N.
CORNELL SCIENCE LEAFLET, VOLUME 61, NUMBER 1, WATER WONDERS
CORNELL UNIVERSITY, ITHACA, NEW YORK
67 31
*ELEMENTARY SCHOOL SCIENCE, *EARTH SCIENCE, *SECONDARY SCHOOL SCIENCE, *SCIENCE ACTIVITIES, *WATER, BIBLIOGRAPHIES, CONSERVATION, EROSION, PHYSICS, REFERENCE MATERIALS, WEATHER

72. SE 006 581
ROCKCASTLE, VERNE N.
CORNELL SCIENCE LEAFLET, VOLUME 61, NUMBER 2, SNOW AND ICE
CORNELL UNIVERSITY, ITHACA, NEW YORK
68 29
*ELEMENTARY SCHOOL SCIENCE, *EARTH SCIENCE, *SECONDARY SCHOOL SCIENCE, *SCIENCE ACTIVITIES, METEOROLOGY, REFERENCE MATERIALS, WEATHER

73. SE 500 592
RUDMAN, ALBERT J.
THE ROLE OF GEOPHYSICS IN THE NEW GLOBAL TECTONICS
THE SCIENCE TEACHER
10 00 69 6
*EARTH SCIENCE, *GEOGRAPHY, *OCEANOLOGY, GEOLOGY, RESOURCE MATERIALS, SEISMOLOGY, 1969

74. SE 007 293
SHEN, SAMUEL Y.; GILMAN, ALFRED J.
POTENTIOMETRIC TITRATION OF ASPIRIN IN ETHANOL
JOURNAL OF CHEMICAL EDUCATION
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*ACIDS, *CHEMISTRY, *LABORATORY TECHNIQUES, *POTENTIOMETRIC TITRATION, *SCIENCE ACTIVITIES, COLLEGE SCIENCE, SECONDARY SCHOOL SCIENCE, ASPIRIN, ACETYTL SALICYLIC ACID

75. SE 006 469
SHRUM, JOHN W.
GEOLOGY AND MAN
THE SCIENCE TEACHER
12 00 68 7
*EARTH SCIENCE, *GEOLOGY, NATURAL SCIENCES, *REFERENCE MATERIALS, *SCIENCE HISTORY

76. SE 500 553
STEERE, NORMAN V.
SAFETY IN THE CHEMICAL LABORATORY
JOURNAL OF CHEMICAL EDUCATION
01 00 69 5
*ACCIDENT PREVENTION, *CHEMISTRY, *FIRST AID, *LABORATORY SAFETY, *RESOURCE MATERIALS, COLLEGE SCIENCE, SECONDARY SCHOOL SCIENCE, NATIONAL SAFETY COUNCIL, MANUFACTURING CHEMISTS' ASSOCIATION, 1969

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STEERE, NORMAN V.
SAFETY IN THE CHEMICAL LABORATORY
JOURNAL OF CHEMICAL EDUCATION
02 00 69 3
*LABORATORY SAFETY, *SAFETY EDUCATION, *OZONE, COLLEGE SCIENCE, PHYSICAL SCIENCES, SECONDARY SCHOOL SCIENCE, 1969

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JOURNAL OF CHEMICAL EDUCATION
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STEERE, NORMAN V.
SAFETY IN THE CHEMICAL LABORATORY
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06 00 69 15
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STEERE, NORMAN V.
SAFETY IN THE CHEMICAL LABORATORY
JOURNAL OF CHEMICAL EDUCATION
07 00 69 8
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82. SE 006 016
STEERE, NORMAN V.
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JOURNAL OF CHEMICAL EDUCATION
12 00 68 4
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83. SE 006 418
STEERE, NORMAN V.
SAFETY IN THE CHEMICAL LABORATORY
JOURNAL OF CHEMICAL EDUCATION
10 00 68 9
*CHEMISTRY, *LABORATORY SAFETY, *SCIENCE LABORATORIES, *SAFETY, COLLEGE CHEMISTRY, INSTRUCTIONAL MATERIALS, LABORATORY EXPERIMENTS, LABORATORY TECHNIQUES, LABORATORY EQUIPMENT, SECONDARY SCHOOL SCIENCE, TEACHING TECHNIQUES

84. SE 007 290
STEERE, NORMAN V.
SAFETY IN THE CHEMICAL LABORATORY
JOURNAL OF CHEMICAL EDUCATION
10 00 65 4
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85. SE 007 333
STEERE, NORMAN V.
SAFETY IN THE CHEMICAL LABORATORY
JOURNAL OF CHEMICAL EDUCATION
11 00 65 3
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STULL, JOHN L.
LOSSY COLLISIONS: AN AIR TRACK EXPERIMENT
THE PHYSICS TEACHER
04 00 69 2
*INSTRUCTION, *MOTION, *PHYSICAL SCIENCES, *PHYSICS, *SECONDARY SCHOOL SCIENCE, COLLEGE SCIENCE, ENERGY, SCIENCE EXPERIMENTS, TEACHING TECHNIQUES

87. SE 007 249
SZABADVARY, FERENC; OESPER, RALPH E.
DEVELOPMENT OF THE pH CONCEPT, A HISTORICAL SURVEY
JOURNAL OF CHEMICAL EDUCATION
02 00 64 3
*ACID-BASE THEORY, BUFFERS, *CONCEPT FORMATION, *HISTORICAL REVIEWS, MEASURMENT TECHNIQUES, *SCIENTIFIC CONCEPTS

88. SE 500 493
VAN DOORN, C. Z.
DEMONSTRATION OF ELECTROSTATIC GENERATOR PRINCIPLES
AMERICAN JOURNAL OF PHYSICS
02 00 69 1
*ELECTRICITY, *GENERATORS, *PHYSICS, *SCIENCE ACTIVITIES, *SCIENCE EQUIPMENT, COLLEGE SCIENCE, SECONDARY SCHOOL SCIENCE

89. SE 500 112
VEGUILLA-BERDECIA, LUIS ANTONIO
THE NATURE OF THE CHEMICAL BOND AS SEEN THROUGH A STUDY OF THE H_2 MOLECULE
THE SCIENCE TEACHER
02 00 69 6
*CHEMISTRY, *CHEMICAL BONDING, *SCIENTIFIC CONCEPTS, COLLEGE SCIENCE, SECONDARY SCHOOL SCIENCE

90. SE 500 628
VINSON, JOE A.; HOCKER, EDWARD K.
SAPONIFICATION OF ASPIRIN IN DIMETHYL SULFOXIDE
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91. SE 007 095
WARREN, J. W.
THERMODYNAMICS
PHYSICS EDUCATION
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WARSH, K. L.
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09 00 69 3
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93. SE 500 578
WEST, PHILIP W.; SACHDEV, SHAM L.
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JOURNAL OF CHEMICAL EDUCATION
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94. SE 500 015
WHEELER, JOHN A.
OUR UNIVERSE - THE KNOWN AND THE UNKNOWN
THE PHYSICS TEACHER
01 00 69 11
*ASTRONOMY, *NUCLEAR PHYSICS, *PHYSICAL SCIENCES, COLLEGE SCIENCE, EARTH SCIENCE, RELATIVITY, SECONDARY SCHOOL SCIENCE, SPACE, TIME

95. SE 500 861
WYATT, DEMARQUIS D.
FRONTIERS OF RESEARCH AND EXPLORATION IN SPACE SCIENCE
THE SCIENCE TEACHER
11 00 69 6
*AEROSPACE TECHNOLOGY, *SPACE, *SCIENCE RESEARCH, ASTRONOMY, MEASUREMENT, SOLAR RADIATION, SATELLITE LABORATORIES, 1969

96. SE 006 392
INDEX TO VOLUME 36, AMERICAN JOURNAL OF PHYSICS
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12 00 68 20
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97. SE 006 876
LOCAL SECTIONS AND SPEAKERS ENDORSE AMERICAN CHEMICAL SOCIETY TOUR PROGRAM
CHEMICAL AND ENGINEERING NEWS
05 00 69 2
*CHEMISTRY, *COLLEGE SCIENCE, *DIRECTORIES, PHYSICAL SCIENCE, SCIENTISTS, SECONDARY SCHOOL SCIENCE, SPEAKERS, AMERICAN CHEMICAL SOCIETY TOURS, 1969

98. SE 500 191
THE RESEARCH FRONTIER
THE PHYSICS TEACHER
02 00 69 2
*NUCLEAR PHYSICS, *PHYSICAL SCIENCES, *PHYSICS, ELECTRICITY, QUANTUM MECHANICS

99. SE 500 021
THE RESEARCH FRONTIER
THE PHYSICS TEACHER
01 00 69 2
*ASTRONOMY, *LIGHT, *PHYSICS, *RADIATION, COMETS, CENTARIUS XR 2, GAMMA RAYS

3. MATHEMATICS

1. SE 500 390
BICKERSTAFF, T. A.
ENVELOPES OF CERTAIN SYSTEMS OF CHORDS OF A CIRCLE
SCHOOL SCIENCE AND MATHEMATICS
06 00 69 4
*COLLEGE MATHEMATICS, *GEOMETRY, *MATHEMATICS, GEOMETRIC CONCEPTS, SECONDARY SCHOOL MATHEMATICS

2. SE 005 910
BOLTON, EARLE H.; GUERINGER, JUNE
EDGEWOOD INDEPENDENT SCHOOL DISTRICT INSTRUCTIONAL TELEVISION GUIDES - COUNTDOWN, TEACHER'S GUIDE 5; SAFARI, TEACHER'S GUIDE 5; PROBE, TEACHER'S GUIDE 6; ABACUS, TEACHER'S GUIDE 6; MATHLETICS, TEACHER'S GUIDE 7; ALGEBRAICALLY SPEAKING, TEACHER'S GUIDE 8; RELATED MATH I & II, TEACHER'S GUIDES 9 & 10; SPECTRA, TEACHER'S GUIDE 9
EDGEWOOD INDEPENDENT SCHOOL DISTRICT, SAN ANTONIO, TEXAS
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ARITHMETIC, ALGEBRA, COURSE CONTENT, *COURSE OBJECTIVES, CURRICULUM, *ELEMENTARY SCHOOL MATHEMATICS, GEOMETRY, *INSTRUCTIONAL TELEVISION, *SECONDARY SCHOOL MATHEMATICS, *TEACHING GUIDES

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BOYER, CARL B.
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NATIONAL COUNCIL OF TEACHERS OF MATHEMATICS YEARBOOK
69 83
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4. SE 500 206
BUSCHMAN, R. G.
PENCILS OF RAYS AND THE SIEVE OF ERATOSTHENES
THE MATHEMATICS TEACHER
04 00 69 3
*GEOMETRIC CONCEPTS, *MATHEMATICS, *TEACHING PROCEDURES, GEOMETRY, NUMBER CONCEPTS

5. SE 500 875
DAVIS, HAROLD T.
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69 77
*ALGORITHMS, *HISTORY, *INSTRUCTION, *MATHEMATICS EDUCATION, *MATHEMATICS, ELEMENTARY SCHOOL MATHEMATICS, MATHEMATICAL ENRICHMENT, NUMBER CONCEPTS, SECONDARY SCHOOL MATHEMATICS, 1969

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DOMOTOR, ZOLTAN
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05 00 69 171
LOGIC, *MATHEMATICAL APPLICATIONS, *MATHEMATICAL CONCEPTS, *MATHEMATICS, *PROBABILITY THEORY, *PROBABILITY, RESEARCH REPORTS

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EVES, HOWARD
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THE MATHEMATICS TEACHER
01 00 69 3
*GEOMETRIC CONCEPTS, *INSTRUCTION, *MATHEMATICS, *SOLID GEOMETRY, GEOMETRY, MATHEMATICAL CONCEPTS

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FREUDENTHAL, HANS
A TEACHERS COURSE COLLOQUIUM ON SETS AND LOGIC
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07 00 69 27
*FUNCTIONS (MATHEMATICS), *INSTRUCTION, *LOGIC, *SET THEORY, ALGEBRA, ELEMENTARY SCHOOL MATHEMATICS, SECONDARY SCHOOL MATHEMATICS, TEACHER EDUCATION

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GEARY, LEO C.
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ED 033 022 MF $0.25 HC $2.05
05 00 68 39
*INSTRUCTIONAL MATERIALS, INSERVICE TEACHER EDUCATION, *PROBABILITY THEORY, *STATISTICS, *SECONDARY SCHOOL MATHEMATICS, TEACHER EDUCATION

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*INTERNATIONAL PROGRAMS, *RESOURCE MATERIALS, *SCIENTIFIC RESEARCH, COLLEGE SCIENCE, DEVELOPING NATIONS, EARTH SCIENCES, LEARNING, METEOROLOGY, PHYSICAL SCIENCES, POLICY FORMATION, SOCIOECONOMIC INFLUENCES, SCIENCES, TECHNOLOGY

45. SE 006 532
SCIENCE YEAR, THE WORLD BOOK SCIENCE ANNUAL 1968
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68 449
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THE SCIENCE TEACHER
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E. AUTHOR INDEX

Authors or organizations responsible for documents are listed alphabetically. The document number of each publication listed is entered after the name of the author or organization. The letter indicates the section of the bibliography and the numerals represent the subsection and the document number, respectively.

ADAMS, JAMES H., JR. (C2-1)

ADAMUS, RICHARD (D2-1)

ADVISORY COUNCIL ON COLLEGE CHEMISTRY (C2-2)

AHERNE, JOHN C. (D2-2)

AKSORNKITTI, S.; AND OTHERS (C2-3)

ALEXANDER, GUY B. (C2-4)

ALLEN, DOROTHEA (B1-1; D1-1)

ALYEA, HUBERT N. (D2-3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18)

AMEND, JOHN R. (B2-1)

AMERICAN GEOLOGICAL INSTITUTE (D2-19)

ANDERSON, JACQUELYN; AND OTHERS (B3-1)

ARCHENHOLD, W. F. (B2 -2)

ARENA, VICTOR (C1-1)

ARMSTRONG, H. L. (D2-20)

ASSOCIATION FOR SCIENCE EDUCATION (A1-1, 2)

ATKINS, DAVID L.; BANNOWSKY, FRED (D1-2)

ATWATER, H. A. (C2-5)

AULT, ADDISON; KOPET, RACHEL (C2-6)

BAILEY, WILLIAM T. (B3-2)

BAIZ, VICTOR F. (B4-1, 2, 3, 4)

BAKER, DIANNE M.; OVERHOLSER, JEAN S. (A2-1)

BALTIMORE COUNTY PUBLIC SCHOOLS (B4-5, 6, 7)

BARD, JAMES R. (C2-7)

BARISCH, SYLVIA (C2-8)

BARNARD, W. ROBERT (C2-9; D2-21)

BARON, BILL N.; AIKENS, DAVID A. (C2-10)

BAUMAN, ROBERT P. (D2-22)

BAUMGART, JOHN K. (B3-3)

BASKETT, RUSSELL C. (D1-3)

BECKENBACH, EDWIN F. (B3-4)

BELL, GRAYDON D.; TUBBS, ELDRED F. (C2-11)

BENNETT, ALICE S.; MERTENS, THOMAS R. (D1-4)

BENNETT, LLOYD M.; AND OTHERS (A1-3)

BENENSON, R. E. (C2-12)

BENSON, SIDNEY W. (C2-13)

BERLINE, STEVEN; BRICKER, CLARK (C2-14)

BESTE, LAWRENCE F. (C2-15)

BEUSCHLEIN, MURIEL (D4-1)

BICKERSTAFF, T. A. (D3-1)

BIGELOW, M. JEROME (D2-23)

BIGLER, DONALD R. (D1-5)

BINGHAM, C. D. (D1-6)

BISER, ROY H. (D2-24)

BISSEY, JACK E. (D2-25)

BLATZ, PAUL; AND OTHERS (C2-16)

BLOOR, D. (C2-17)

BOE, BARBARA L. (B3-5)

BOGUE, J. YULE (D1-7)

BOLTON, EARLE H.; GUERINGER, JUNE (D3-2)

BONDI, H. (C2-18)

BOSCH, ARTHUR J. (C2-19)

BOYER, CARL B. (D3-3)

BOYER, LEE E. (C3-1)

BREHME, ROBERT W.; MOORE, WAYNE E. (C3-2)

BRIDGMAN, WILBUR B. (C2-20)

BROWN, JUDITH C.; HARTE, JUDITH A. (C2-21)

BROWN, WILLIAM E.; CAMPBELL, J. A. (C2-22)

BRYAN, ASHLEY, M.; OLAFSSON, PATRICK G. (C2-23)

BULLEN, T. G. (C2-24)

BURGER, H. ROBERT (C2-25)

BURGESS, A. E.; LATHAM J. L. (C2-26)

BUSCH, PHYLLIS S. (A1-4, 5, 6; B1-3)

BUSHMAN, R. G. (D3-4)

BUSSER, JOHN H. (C2-27; D1-8; D4-2)

CAMBELL, J. A.; AND OTHERS (C2-28)

CAMBELL, J. A.; WHITEKER, R. A. (D2-26)

CANAGARATNA, S. G. (D2-27)

CARLSON, ELOF AXEL (D1-9)

CARPER, M. A.; CARPER, W. R. (C1-2)

CASPERSON, L. W.; NICOLET, M. A. (C2-29)

CASTILLO, R. (C2-30)

CHAPIN, EARL C.; BURNS, RICHARD F. (C2-31

CHAUNDY, D. C. F. (D2-28)

CHESLEY, ROBERT E. (B2-3)

CHRISTENSEN, F. E. (D2-29)

CLARK, NOEL A.; LUNACEK, JOSEPH H. (C2-32

COE, LEE (D2-30)

COHEN, IRWIN; DEL BENE, JANET (C2-33)

COHEN, JEFFREY M.; COHEN, MARION D. (C2-3

COLE, JAMES E. (B1-4)

COMMISSION ON ENGINEERING EDUCATION (B2-4; C2-35)

CONARD, DAVID; LAWSON, CHESTER A. (A1-7)

CORLESS, JAMES T. (C2-36)

CORLISS, WILLIAM R.; ANDERTON, DAVID A. (D4-3)

COWANS, JOSEPH A.; KATZ, SIDNEY A. (C1-3)

CRAIG, NORMAN C. (D2-31)

CRAMER, WARD (A2-2)

CRANE, H. R. (D2-32; C2-37, 38)

CRATER, H. L.; AND OTHERS (D2-33)

CROMER, DON L. (C2-39)

CRUMMOND, A. H., JR. (A1-8)

CULTER, JANICE (A1-9)

CURZON, A. E. (C2-40)

DAVIS, HAROLD T. (D3-5)

DAVIS, ROBERT C.; AND OTHERS (B1-5)

DE ACETIS, LOUIS A.; LAZAR, IRVING (C2-41)

DEAN, C. THOMAS (B2-5)

DELWICHE, C. C. (D4-4)

DE MARE, G. R.; AND OTHERS (C2-42)

DEMATTIA, DENNIS; AND OTHERS (C2-43)

DEUTSCH, JOHN L.; POLING, STEPHEN M. (C2-44)

DEVERIN, J. A.; SALZMANN, J. J. (D2-34)

DE WITT, CALVIN B. (D2-35)

DIESNER, RICHARD H. (B1-6)

DOLBIER, WILLIAM R., JR. (C2-45)

DOMOTOR, ZOLTAN (D3-6)

DONOHUE, JERRY (C2-46)

DOTSON, W. G. (C3-3)

DOTY, GENE (B2-6)

DREISBACH, DALE (D2-36, 37)

DURANT, VICTORIA; MONTGOMERY, MARSHALL (A1-10)

DYER, K. F. (B1-7)

DYER, RUTHANNA M.; WILLEY, RUTH L. (D1-10)

DYRSSEN, DAVID; AND OTHERS (C2-47)

EASTON, JOY B. (B3-6)

EINHORN, ERWIN (B4-8)

EISS, ALBERT F. (B2-7)

ELMER, RUDY P. (B2-8)

ERIC INFORMATION ANALYSIS CENTER FOR SCIENCE EDUCATION (D4-5, 6)

ERICKSON, LUTHER E. (C2-48)

EVANS, R. B., III; AND OTHERS (C2-49)

EVANS, S. M. (B1-8)

EVERDELL, M. H. (C2-50)

EVES, HOWARD (B3-7; D3-7)

EWING, GALEN W. (C2-51; D2-38, 39)

FEIFER, NATHAN (D2-40)

FEIRER, JOHN L. (B2-9)

FISCHER, RICHARD B. (D4-7)

FISHER, MERLE (B2-10)

FITZGIBBONS, ROBERT C. (B1-9)

FLEWWELLING, R. B.; LAIDLAW, W. G. (C2-52)

FLORY, DAVID W. (A2-3)

FONG, PETER (D4-8)

FORSYTHE, ALEXANDRA (B3-8)

FOX, WILLIAM T. (D4-9)

FRANDSEN, HENRY (B3-9)

FRANKLIN, WILLIAM R. (B2-11)

FREDERIKSEN, JOHN G. (B3-10)

FREITAG, HERTA T.; FREITAG, ARTHUR H. (C3-4)

FRENCH, W. R., JR.; AND OTHERS (C2-53)

FREUDENTHAL, HANS (D3-8)

FRODYMA, M. M.; FREI, R. W. (C2-54)

FRYE, JOHN C. (D4-10)

GALEN, DONALD F. (D1-11)

GANIS, FRANK M. (D4-11)

GARROD, J. E.; HERRINGTON, THELMA M. (C2-55)

GARWIN, RICHARD L. (C2-56)

GATES, DAVID M. (D1-12)

GEARY, LEO C. (D3-9)

GEDDES, DOROTHY; LIBSEY, SALLY I. (B3-11)

GELSEMA, W. J.; AND OTHERS (C2-57)

GEORGE, D. V. (C2-58)

GILLIS, ELIZABETH; AND OTHERS (D4-12)

GLASSTONE, SAMUEL (D4-13)

GLAYMANN, MAURICE (B3-12)

GLOVER, FRANCISCO (D2-41)

GOGAN, DAISY (A2-4)

GOLLER, EDWIN J. (C2-59)

GOODMAN, A. F.; BLISCHKE, W. R. (D3-10)

GORDON, J. E. (C2-60)

GOTTLIEB, HERBERT H. (B2-12; D2-42)

GOWER, R. P.; RHODES, I. P. (C2-61)

GRABER, RICHARD R. (D1-13)

GRAHAM, MILDRED W. (B2-13)

GRAHAM, S. O. (D2-43)

GREEN, FRANK O. (C2-62)

GRENDER, GORDON C. (C1-4)

GROSSBERG, ALAN B. (C2-63)

GUERINGER, JUNE (B4-9)

GUILLORY, WILLIAM A. (C2-64)

GUNDLACH, BERNARD H. (B3-13)

GURAU, PETER K. (A2-5)

HAAS, M. W. (C2-65)

HAGESETH, GAYLORD; MCCORMACK, FRANCIS J. (C2-66)

HAIGHT, G. P. (C2-67; D2-44)

HALL, GENE E. (D4-14)

HAMILTON, J. H.; AND STEVENS, W. H. (D2-45

HAMMING, EDWARD (D2-46)

HARVARD PROJECT PHYSICS (B2-14)

HAWTHORNE, FRANK S. (D1-14)

HEALD, MARK A. (D3-11)

HEANEY, H.; MARPLES, B. A. (C2-68)

HECHTLINGER, ADELAIDE; HERMAN, NETTIE (B1-10)

HEDRICK, C. E. (C2-69)

HEINLEIN, C. LEROY (B4-10)

HEINOWSKI, SISTER MARY ROSAIRE (D1-15)

HERBER, ROLFE H. (C2-70)

HERR, RICHARD B. (C2-71)

HERTZLER, EMMANUEL C.; GEDEON, ANTHONY (D1-16)

HESSE, MARY (C2-72)

HICKEN, BARON B. (B3-14)

HIGGINS, JON L. (A2-6)

HILL, DEREK L.; AND OTHERS (C2-73)

HIMMEL, ALBERT A. (D4-15)

HINCH, NYLDS (D4-16)

HIRSCH, JOSEPH (B3-15)

HOFF, DARREL B. (D2-47)

HOLDAN, GREGORY (A2-7)

HORMAN, IAN; STRAUSS, MICHAEL J. (C2-74)

HOSHAW, ROBERT W. (D1-17)

HOSTE, R. (B1-11)

HOUSE, J. E., JR. REITER, R. C. (C2-75)

HUFFMAN, DAVID C. (C3-5)

HUGHES, R. GRAHAM; AND OTHERS (C2-76)

HUNGERFORD, HAROLD R.; KNAPP, CLIFFORD E. (D4-17)

HUNT, EARL; AND OTHERS (D3-12)

HUNT, R. G.; SALINGER, G. L. (D2-48)

HURDIS, EVERETT C.; YANG, JOSEPHINE W. (C2-77)

HURLBURT, EVELYN M. (C1-5)

ID, YUSUF; KENNEDY, E. (B3-16)

IDOUX, JOHN P. (C2-78)

INDELICATO, ARTHUR (D3-13)

IRBY, BOBBY N. (D2-49)

IRVING, JAMES R. (D4-18)

ISENBERG, NORBERT; GRDINIC, MARCEL (C2-79)

JACOBUS, JOHN; RABAN, MORTON (C2-80)

JAMES, DANIEL E. (D1-18)

JANSSEN, JERRY F. (C2-81)

JAQUES, DEREK (C2-82)

JOHNSON, ARNOLD R. (C2-83)

JOHNSON, DONOVAN A.; RISING, GERALD R. (B3-17)

JOHNSON, RICHARD S.; CRAWFORD, DAVID E. (C2-84)

JOHNSTON, C. B.; AND OTHERS (C2-85)

JONES, PHILLIP S. (D3-14)

JUNGE, CHARLOTTE W. (A2-8)

KANE, JULIAN (B2-15)

KANTER, L. H. (B3-18)

KAUFFMAN, GEORGE B. (D2-50)

KEMMERER, W. W., JR.; MASON, J. A.; AND WOOLEY, B. C. (D4-19)

KENNEDY, EDWARD S. (B3-19)

KEY, ROBERT E. (B4-11)

KEYZER, H. (C2-86)

KHOURI, JOHN W. (A1-11)

KINNEY, G. F. (D2-51)

KIRKPATRICK, HERMAN H. (B4-12)

KLEBER, RICHARD S. (B3-20)

KNAPP, CLIFFORD E. (A1-12)

KNUTSON, P. A.; SALINGER, G. L. (D2-52)

KOHN, ROBERT E. (D4-20)

KOPP, AUDREY; HAMADA, ROBERT (A2-9)

KRATOCHVIL, B. G.; AND OTHERS (C2-87)

KREISLER, MICHAEL N. (D2-53)

KROCKOVER, GERALD H.; GLASS, LYNN W. (A1-13

KUHN, DAVID J. (B1-12, 13)

KUKOLICH, STEPHEN G. (C2-88, 89)

KUROIWA, DAISUKE (D2-54)

LANDE, ALFRED (D2-55)

LANGENBERG, D. N. (C2-90)

L'ANNUNZIATA, MICHAEL F.; FULLER, WALLACE (C2-91)

LANSDOWN, BRENDA (A1-14)

LAPORTE, LEO F. (C2-92)

LAUREN, PAUL M. (D2-56)

LAW, JOSEPH (C2-93)

LAWSON, MALCOLM (A1-15)

LEAVITT, JOHN A.; BILLS, FRANCIS A. (C2-94)

LEE, TOM E.; AND OTHERS (B4-13)

LEIBOVITZ, C. (D2-57)

LEROY, BROTHER (B1-14)

LEVINE, LAURENCE (D1-19)

LEYDEN, DONALD E.; MORGAN, W. R. (C2-95)

LIEDTKE, WERNER (A2-10)

LIGHTNER, JERRY P. (D4-21)

LINDBALD, BENGT; AND OTHERS (C2-96)

LINSKY, RONALD B.; SCHITGER, RONALD L. (B4-14)

LISSANT, ELLEN KERN (D1-20)

LOCKARD, J. DAVID (A1-16)

LOCKWOOD, K. L. (C2-97, 98)

LONG, DONALD (C2-99)

LOUGHLIN, L. R. (B1-15)

LOWERY, LAWRENCE F. (A1-17)

MALCOM, PAUL SCOTT (C3-6)

MANKA, C. K. (D2-58)

MARKGRAF, J. HODGE (C2-100)

MARSHALL, L. C.; GEORGE, NADINE F. (D4-22)

MARSZALEK, DONALD S.; HAY WILLIAM H. (D4-23)

MARTIN, D. H.; TEESE, R. B. (C2-101)

MASON, E. A.; EVANS R. B., III (C2-102)

MATHISON, SALLY (A2-11)

MATTHEWS, E. REBECCA (B3-21)

MAXFIELD, B. W. (D2-59)

MAZZATENTA, ERNEST (C2-103)

MEISSNER, HANS (D2-60)

MENDOZA, E.; READ, F. H. (C2-104)

MERRILL, J. R. (C2-105, 107; D2-61)

MERRILL, J. R.; CHRISTY, R. W. (C2-106)

MESKILL, V. P.; MARKS, S. W. (C1-6)

METCALFE, JOHN A. (A1-18)

MICHAEL, PAUL; SCHERMER, ROBERT I. (C2-108)

MILLER, AMOS (B3-22)

MILNE, ESTHER (A2-12)

MINNESOTA MINING AND MANUFACTURING COMPANY (A1-19)

MIZUKAMI, HIROSKI (D1-21)

MOHAN, GYAN (C2-109)

MORRISON, JAMES D. (C2-110)

MORTON, ROBERT L. (D3-15)

MOSS, STEPHEN J.; HILL, DEREK L. (C2-11)

MOTT-SMITH, JOHN (D3-16)

MULDAWER, LEONARD (D2-62)

MULLIN, W. BRUCE (B4-15, 16, 17)

MUSGRAVE, A. J. (B1-16)

MCCAFFERY, EDWARD L. (C2-112)

MCGANNON, HAROLD E. (D2-63)

MCINTYRE, KENNETH M. (B4-18)

MCLANE, LYN (A2-13)

MCMENAMIN, JOSEPH P. (D1-22, 23, 24, 25)

NANNINI, AMOS (B3-23; C3-7)

NAPPER, D. H. (C2-113)

NATIONAL ACADEMY OF SCIENCES (D4-24)

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION (D4-25, 26, 27, 28, 29)

NAVARETTE, MANUEL (C2-114)

NEIDIG, H. A.; YINGLING, R. T. (C2-115, 116; D2-64)

NELSON, DIANE; NELSON, MARVIN N. (A2-14)

NEWMAN, DAVID S. (C2-117)

NEW YORK CITY BOARD OF EDUCATION (B3-24; D4-30)

NORCROSS, B. E.; AND OTHERS (C2-118)

NORRIS, DAVID O. (B1-17)

OATES, W. A. (C2-119)

O'DONNELL, T. A. (C2-120)

OGLETREE, EARL (A2-15)

OLSON, DON (D4-31)

OLSON, GARY L. (C2-121)

O'MALLEY, JOHN A. (D4-32)

OOSSE, WILLIAM J. (A2-16)

OPPENHEIM, M. J. (D2-65)

OSBORNE, ALAN R. (D4-33)

OSBORNE, ROBERT H. (C2-122)

PAGE, DAVID A. (D3-17)

PALMERI, LOUIS (D1-26)

PANUSH, LOUIS (B4-19)

PAUL, ARMINE D.; GIBSON, JOHN A. (C2-123)

PAULSON, GORDON L. (A1-20)

PEACH, S. M. (C2-124)

PEARSON, ROBERT E. (C2-125)

PECAR, ALLEN J. (B2-16)

PENNSYLVANIA STATE DEPARTMENT OF PUBLIC INSTRUCTION (A2-17; D1-27)

PERLUMUTTER-HAYMAN, BERTA (C2-126)

PIERCE, RAYMOND G. (B1-18)

PINCUS, MORRIS, (A2-18)

PLETCHER, FERDINAND T. (B1-19)

PLOUTZ, PAUL F. (D4-34)

POONIA, N. S.; GUPTA, H. K. L. (D2-66)

POORMAN, LAWRENCE (GENE) (A1-21)

PORTLAND PUBLIC SCHOOLS (D1-28)

POSKOZIM, PAUL S. (C2-127)

POTTER, IRENE C.; LEWIS, JUNE E. (A1-22)

POUND, A. E. (B1-20)

PRIELIPP, ROBERT W. (B3-25, 26)

PROVOST, L. R.; JARDINE, R. V. (C2-128)

PURSELL, LYLE E. (B3-27)

PYUN, C. W. (C2-129)

QUINNEY, PAUL R.; SWARTZ, HOWARD A. (D1-29)

QUYNN, RICHARD G. (C2-130)

RAGAN, DONAL M. (C2-131)

RAJ, K.; RAMASWANY, M. K. (C2-132)

RANK, RONALD I. (D2-67)

RASOF, ELVIN (A2-19)

RAUSCH, G. W.; CHRISTECK, R. P. (C2-133)

RAW, C. J. G.; KARRENBROCK, A. J. (C2-134)

READ, CECIL B. (D3-18)

RICHARDS, JAMES E. (B2-17)

RICHARDS, P. L.; AND OTHERS (C2-135)

RICHMOND, P. E. (B2-18)

RIEDESEL, C. ALAN; SUYDAM, MARILYN N. (A2-20)

RINEHART, JOHN S. (D2-68)

RIZZA, JOHN J. (D1-30)

ROARK, OAKLEY F. (D1-31, 32, 33, 34, 35, 36)

ROBINSON, JAMES T. (D4-35)

ROBINSON, W.K.; AND OTHERS (C2-136, 137)

ROCKCASTLE, VERNE N. (D1-37; D2-69, 70, 71, 72; D4-36)

ROCKCASTLE, VERNE N.; BAKKE, JEANNETTE (D1-38)

RODBERG, LEONARD S. (D4-37)

RODIGUEZ, F. (C2-138)

ROGERS, D. H. (C2-139)

ROGERS, JOHN; AND OTHERS (C2-140)

ROSE, SUSAN L.; MACRAE, EDITH K. (B1-21)

ROSENBAUM, MANUEL (C2-141)

ROTH, CHARLES; ROCKCASLTE, VERNE N. (D1-39)

RÖTHSTEIN, JEROME (C2-142)

RUBIN, JAY A.; FILSETH, STEPHEN V. (C2-14

RUDIN, A. (C2-144)

RUDMAN, ALBERT J. (D2-73)

RUSSO, SALVATORE F. (C2-145)

SAINT JOHN, LEO (A1-23)

SALEM, SEMAAN I.; AULT, EARL R. (C2-146)

SALZBERT, H. W. (C2-147)

SANDERSON, R. T. (C2-148)

SCHMIDT, V. HUGO (C2-149)

SCHMITT, DONALD L.; JONASSEN, HANS B. (C2-150)

SCIENCE CURRICULUM IMPROVEMENT STUDY (A1-24)

SCHOLZ, R. G.; AND OTHERS (C2-151)

SCHRECK, JAMES O. (C2-152)

SCHWARZ, GUENTER (C2-153, 154)

SCIAMANDA, ROBERT J. (C2-155)

SEMMELROGGE, W. F.; SICILIO, FRED (C2-156

SHARMA, V. S.; SCHUBERT, JACK (C2-157)

SHARMAN, R. V. (C2-158)

SHATTUCK, J. BRUCE (A1-25)

SHEN, SAMUEL Y.; GILMAN, ALFRED J. (D2-74

SHORESMAN, PETER B.; AND OTHERS (A1-26)

SHOWALTER, VICTOR; SLESNICK, IRWIN (B4-20

SHRUM, JOHN W. (D2-75)

SIEGEL, RICHARD S. (B2-19)

SLABAUGH, W. H. (C2-159)

SMITH, NORMAN O. (C2-160)

SMITH, RICHARD F.; BATES, ALVIN C. (C2-161)

SOHN, BERNARD I. (B4-21)

SOUTHEASTERN PENNSYLVANIA OUTDOOR EDUCATION CENTER (A1-27)

STARK, J. G. (C2-162)

STAUSS, NYLES G. (A1-28)

STEERE, NORMAN V. (C2-163, 164, 165; D2-76, 77, 78, 79, 80, 81, 82, 83, 84, 85)

STOLZENBERG, GABRIEL (D3-19)

STOPYRA, TED J. (D1-40)

STRAIN, HAROLD H.; SHERMA, JOSEPH (D1-41)

STRAIN, LUCILLE B. (A2-21)

STULL, JOHN L. (D2-86)

SUNDERLIN, SYLVIA (D4-38)

SUPPE, FREDERICK ROY (D4-39)

SVEC, M. MELVINA (D3-20)

SWIFT, J. NATHAN (D4-40)

SZABADVARY, FERENC; OESPER, RALPH E. (D2-87)

TATUM, EDWARD L. (D4-41)

TAYLOR, A. R. (D1-42)

TAYLOR, P. L. (C2-166)

TEEGARDEN, DONALD O. (A2-22)

THAYER, JOHN S. (C2-167)

THEISS, FRANCES CASE (A1-29)

TIPTON, CARL K. (B2-20)

TITIEV, ROBERT JAY (D3-21)

TOLANSKY, S. (C2-168)

TRAGESSER, ROBERT S. (D3-22)

TROOST, CORNELIUS J. (B2-21)

VAN DOORN, C. Z. (D2-88)

VEGUILLA-BERDECIA, LUIS ANTONIA (D2-89)

VERNO, C. RALPH (C3-8)

VEST, FLOYD R. (A2-23)

VINSON, JOE A.; HOCKER, EDWARD K. (D2-90)

VOGEL, LUTHER H. (B1-22)

WAGNER, BARTLETT A. (A1-30)

WAGSTAFFE, REGINALD; FIDLER, J. HAVELOCK (D1-43)

WALKER, FRANK W.; ASHBY, E. C. (C2-169)

WALLACE, M. E.; AND OTHERS (D1-44)

WALTER, ROBERT I. (C2-170)

WALTON, HAROLD F. (C2-171)

WARD, H. BAILEY; VANCE, B. DWAIN (D1-45)

WARREN, J. W. (D2-91)

WARSH, K. L. (D2-92)

WATKINS, STEVEN N. (A1-31)

WEIBEL, E. S. (C2-172)

WEIR, JOHN J. (D4-42)

WEST, PHILIP W.; SACHDEV, SHAM L. (D2-93)

WHEELER, JOHN A. (D2-94)

WHITFORD, P. B. (D1-46, 47)

WILCOX, W. R. (C2-173)

WILDER, R. L. (C3-9)

WILLSON, WILLIAM WYNNE (B3-28)

WILSON, J. TUZO (C2-174)

WILSON, JOHN (B3-29)

WITTERS, WELDON L. (D1-48)

WITTERS, WELDON L.; WITTERS, PATRICIA (D1-49)

WORLEY, JOHN D.; GARTEIZ, DANIEL A. (C2-175)

WORRALL, I. J. (C2-176)

WRIGHT, ROBERT W. (D1-50)

WYATT, DEMARQUIS D. (D2-95)

YANG, WILLIAM; LEE, EDWARD K. C. (C2-177)

YODER, CLAUDE H. (C2-178)

YOUNT, DAVID (C2-179)

F. ARTICLES WITH NO SPECIFIED AUTHOR

AMERICAN CHEMICAL SOCIETY NEWS - CHEMISTS CAN GET UP TO DATE IN DETROIT CHEMICAL AND ENGINEERING NEWS (C2-180)

APPRAISAL - CHILDREN'S SCIENCE BOOKS (A1-32)

BIBLIOGRAPHY (D1-51)

THE COMBINED BOOK EXHIBIT, A BIBLIOGRAPHY FOR THE SCIENCE TEACHER (D4-43)

CORNELL SCIENCE LEAFLET, VOLUME 57, NUMBER 3, NATURE POETRY (D1-52)

IMPACT OF SCIENCE ON SOCIETY VOLUME XVI, NUMBER 2 (D4-44)

INDEX TO VOLUME 36, AMERICAN JOURNAL OF PHYSICS (D2-96)

INTRODUCTORY PHYSICAL SCIENCE TEACHER'S GUIDE (B2-22)

LOCAL SECTIONS AND SPEAKERS ENDORSE AMERICAN CHEMICAL SOCIETY TOUR PROGRAM (D2-97)

MICROBIOLOGY FOR THE BEGINNING STUDENT (D1-53)

NEW WAYS IN ELEMENTARY SCIENCE, WORKSHOP LEADER'S GUIDE (A1-33)

OUTDOOR EDUCATION PROGRAM FOR SCHOOLS, SAMPLE MATERIALS (A1-34)

PRODUCT INFORMATION SUPPLEMENT #8: ELEMENTARY SCHOOL SCIENCE KITS FOR THE PHYSICAL SCIENCES (A1-35)

PRODUCT INFORMATION SUPPLEMENT #9: ELEMENTARY SCHOOL SCIENCE KITS FOR THE BIOLOGICAL SCIENCES (A1-36)

PROGRESS AND DEVELOPMENT IN BIOLOGICAL EDUCATION (D1-54)

THE RESEARCH FRONTIER (D2-98)

THE RESEARCH FRONTIER (D2-99)

SCIENCE IN THE ELEMENTARY SCHOOL PROGRAM (A1-37)

SCIENCE YEAR, THE WORLD BOOK SCIENCE ANNUAL 1968 (D4-45)

THE 17TH NATIONAL SCIENCE TEACHERS ASSOCIATION CONVENTION (D4-46)

THE SMITHSONIAN OCEANOGRAPHIC SORTING CENTER (D1-55)

TRICKY, TROUBLESOME TRIANGLES (B3-30)